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THE IMPACT OF FINANCIAL LEVERAGE ON ROE FOR ISLAMIC BANKS IN ASIAN REGION: THE STUDY BASED ON SIGNALING THEORY

Abdul Rahim¹, Shagufta Ashraf², Waqas Iftikhar³, Mr. Shahid Mehmood⁴, Dr. Muhammad Muddassar Khan⁵, Dr. Muhammad Siddique⁶

¹University of Kotli Azad Jammu & Kashmir, Pakistan

²HoD Banking and Finance, University of Kotli Azad Jammu & Kashmir, Pakistan

³PhD Scholar, Department of Finance, Shanxi University of Finance and Economics, Taiyuan China

⁴PhD Scholar, University of Azad Jammu & Kashmir, Muzaffarabad, Pakistan, Visiting Faculty, University of Kotli Azad Jammu & Kashmir, Pakistan

⁵HoD Management Sciences, Abbottabad University of Science and Technology, Pakistan Associate Professor, Department of Commerce, University of the Punjab, Gujranwala Campus, Pakistan

Abstract

The study is designed to determine the effects of financial leverage on banks performance, further this study is based on the Islamic banks in the Asian region. The data of twenty-five Islamic Banks are chosen from Asian countries and data collected for the study is for time period (2010 -2019), and data collection was done by accessing Thomson Reuters Data Stream. Latest version of E-views is used for analyzing the data of current study. Descriptive Statistics, Correlation Analysis, Common Effect Model, Fixed Effect Model, Likelihood Test, Random effect Model and Hausman Test, are used in data analysis of the current study. Researcher used the fixed effect regression model.

Results of current study revealed positive impact of Leverage on performance of Islamic Banks operating their businesses in Asian Region. Further results showed positive impact for Islamic banks performance (ROE) in the presence of control variables (Bank Size and Bank Efficiency). Findings also revealed the high financial leverage increases the performance of Islamic banks in Asian countries. The results are opposite to the thematic approach of Agency Cost Theory. Agency Cost Theory is describing that when there is increase in the equity of banks this will have negative outcomes for firm value. However, Signaling Theory is fully supporting the results of the current study. According to Signaling Theory, if there is higher capital then the performance of the banks will be much better. In current research it is found

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that financial leverage is on the level in Islamic Banks that totally depends upon the flexibility ratio for the adjustment of the value of debt and their power of earning.

Keywords: Financial Leverage (FL), Firm Performance (FP), Return on Equity (ROE), Signaling Theory

1. INTRODUCTION

1.1 Background of the Study

Recently Islamic Bank industry is springing in Muslim countries and for general public, academicians and corporate owners it is also an area of interest as well. It is one of the important industries that can work a lot for improvement in Banking Industry. Dawn news, (The Business and Finance Weekly), September 2nd, 2019, according to a senior banker the most practical solution is that it is essential for the banks to introduce and establish own rate based on Musharka and Mudarba agreements in the interbank market. Currently government of Pakistan has introduced fixed rate Sukuk. Many sovereign issues can also be used as benchmark for the purpose of long-term financing by the financial institutions. In variation dynamics in financial sector, discussion requires some focused coordinating behavior among academia, practitioners, regulators and digitization experts to depict some creative solution.

There are number of strategies, methods and techniques which are used by firms in reaching (ROE) return on equity. Financial leverage is one of them. The association between financial leverage and ROE plays vital role to all firms. The motive of this study is to find out the effect of financial leverage on Islamic bank's performance in Asian countries. An authentic source of measuring the bank performance is their financial statements which have direct link with the performance Researchers argued an admirable association and link between the financial leverage and performance of the bank.

The current world financial crises brought the Islamic financial system into the spotlight as a possible difference for the purpose of investment and banking (Smola and Mirakhor, 2010). Islamic financial institutions are dominant in possessing the high market shares in number of economies which are emerging like Malysia and other middle Eastern economies (Beck et al., 2013). Islamic bank industry is recognized as one of the springing and fastest industry in finance and is still growing all over the world. The total number of Islamic institutions exceed to (Sufian and Noor, 2009). Malaysia and Bahrain are struggling hard to be a hub in the region for Islamic financial services (Ariss, 2010). Despite of the rapid expansion of the Islamic banking industry, the findings of Islamic banks at cross- nation level are still in its early age (Sufian and Noor, 2009).

Several scholars (Jermias 2008; and others) are of the opinion that there is a positive association between leverage and the firm's value because they create that the use of debt finance in the capita ensures an increase in efficiency behind providing tax shield to the company. On contrary few scholars (Phillips and Sipahioglu, 2004; Qureshi, 2007; and others) are requesting of an insignificant association b/w leverage and firm performance. So far, literature is of focus, we took no concrete outlook of relation among financial leverage and firm value because of mixed consequences. Therefore, a comprehensive and systematic study is needed on the aforesaid issue (i.e. Capital Structure - the mixture of equity and debt capital). The main purpose of the research work is to examine the nature and degree of association between financial leverage and the value

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of firm of some selected NSE registered firms.

Every organization requires finance in order to invest in various types of assets in order to perform effectively to provide the customers with tangible or intangible products. The requirements of increase in funds for successful operative pattern which have risen to critical concepts in finance, Financial leverage. Decisions made on capital structure of Banks' Management have a positive role on the financial performance of the firm and firms operating in various sectors of economy, the influence that these decisions may have on a firm's profitability is bound to be different across numerous industrial sectors owing to the basic difference in capital structure of the firms. Debt financing level that a firm is using in its structure of capital is referred to financial leverage. The work on financial leverage is done to impact the firm performance in the literature of various studies of capital structure (San & Heng, 2011; Salim & Yadav, 2012; Khan, 2012), although no conclusive association has been documented yet and therefore further research in this area will be encouraged lately.

In any organization decisions related to finance investment and dividend play major role and having an urgent mater because of an important source of organization. These decisions have a direct link with performance of firm

In modern era, a phenomenon of financing source has a trend. It is using leverage that harmonized with the rising number of monetary institution (Halitt, 2005; Hal, Foxon, & Bolton, 2016; Hansens, Deloof, &Vanaacker, 2016; Harel, 2016; Hashim, Mahadi, & Amran, 2015; Ibrahim & Mirakhor, 2014; Weill, 2008). There are two types of financial resources which are internal and external, internal source has low effect to others because there is no link between all the decisions. On the other side external source has an influence and one benefit at the same time by having responsibility of paying interest on the debt Issuance of stock is also one way of attracting the public used by the various companies for the purpose of fund collection (Ching, Teh, San, & Hoe, 2015). Risk is also associated with all type of decisions if someone sees an opportunity or some better source he will move toward the higher performance. Performance which is measured by mean of return on assets and return on equity or other measures of profit is the actual outcome or result of firm (Ahmad & Qais, 2017; Kebeewar, 2012, 2013; Memon, Bhutto, & Abas, 2012). Performance of any organization is interpreted as an achievement which indicates its sources, results of such performance can also be used as predictors of performance for the future time period. Expansion in markets and increasing no of sources of finance of firm are known as good signs for all the related parties.

Financial leverage selection is critical since the working exactly effected by such wish; thus, the desire of mixture among equity and debt have to be dealt with through finance manager with issue, for reason that seminar on the paper of Modiiglani and Miiler in 1958 the capital formation idea and interplay by companies" performance there was consistency with modern-day results (Al-Taani, 2013; Mohamed, 2010; Ogbe. P, Ogebe & Alewi, 2013). Modiiglani and Miiler (1958) claim that irrelevance of fairness to ratio of the agency position. Due to the fact that they take into account the assumptions of best markets without tax, and no bankrupt transactions expenses, idea regarding debt irrelevancy is very hardly sensible (Osmaan & Mohamed 2010, Ogebe & Aelewi, 2013). Financial leverage, for this reason so has an impact on profit of the firm. Since lower debt causes in restrained capability to feature's extra efficient belongings.

Myers and Majluf (2004) finished a look at the impact for uneven facts on firms desiring the financial sources, the observer used a descriptive measures in which 342 business companies in Canada have been analyzed, the observer observed that inside the life of uneven material,

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internal financial sources are more often than not desired by using the firm aside from different funds, debts could be used if there is a deficiency in internal sources, the least opportunity for organization is to problem quite new fairness share, worthwhile groups are probably have extra retained income.

Donldson, (2001) did an investigation on the connection among influence and long-ago productivity in Canada consultancy firms wherever an example of 236 firms were utilized. Investigation exposed that negative relationship is foreseen among influence and past benefit. The examination in this way presumed speculators will like to put resources into beneficial organizations. Since the more the gainful the firm is, the lower the probability of confronting monetary issues which prompts liquidation. Thus, a significant relation is foreseen between benefits of institutions and proprietorship. Hovakimian et al. (2004) conveyed an investigation to decide the impact of development capability of firms engaged in dairy business to financial specialists in UK where 314 companies were included, utilizing exploratory examination plan he found that high development firms carry much capital additions to powerful speculators than low development ones, developing firms are more serious to office hitches, that they are too much adaptable in decision of turning out to be organization ventures. In this way, it's foreseen that development rate and long haul influence which is not related.

Research work in different nations on planet has demonstrated various relationships among influence and budgetary execution. While inspecting the structure of capital and execution of firms in USA, UK, Fraance and Japaan, Wald (2009) examine significant relationship among size and monetary execution. Not with standing, it was insignificant relation for organizations in German. In China, Chin (2004) additionally settled negative relationship among extensive haul influence and monetary execution. This divergence in outcomes requires an examination in Kenya.

The function of budgetary influence in expanding the arrival of investors depends on the conviction which is subject to changing in finances, for example, loaning from money related establishments and different hotspots for instance debenture ought to be acquired at worth not exactly the association pace of profit for all out resources. Damourii, et al (2013) conveyed an investigation on organizations in S-Africa and characterized utilizing value as danger charges included and can be estimated with influence proportion. There are number of determinants for estimation of capital formation and normally utilized are, market esteem base actions, book base measures and semi-market based measures.

Money related influence effects income benefit after assessment. Blend of these two influences have significance to profit owing to standard investors (Pandey, 2010, Ogebe & Alewi, 2013). Al-Tani (2012) represented effect of monetary execution on working capital administration strategy and money related influence. From their examinations demonstrated that association's capital administration strategy, spoken by monetary influence and size of firm have critical relation with firms" execution in regard to overall gain anyway did not find noteworthy effect on Return on value and profit for Assets.

1.2 Determinants of firm performance

1.2.1(ROA) Return on Assets

ROA is the measure of gainfulness of the firm's functions. (Stephen 2010). It determines how a firm has earned the suitable return by making use of assets. Finance policy does not come under the consideration of this ratio it just shows how assets are used by firm to generate the income. (Williams, 2010).

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1.2.2(ROE) Return on Equity

ROE measures the total income related to firm average equity to stockholders during the year (Williams, 2010) and high ROE ensures the suitable profit to the shareholders. According to (Williams, 2010:647). A firm which suffers net loss is providing its shareholders a negative return on equity.

There is a possibility that a firm with high ROA has low ROE and having low ROA with high ROE because the ROE depends on amount of finance investment by the shareholders in the capital frame of the firm. If the borrowings (debt) are higher than the ROE will be low if we compare it with firm having same amount of entire assets and total earning.

Therefore, this study will investigate the situation in Asian country to bridge the knowledge gap. In this research work ROE and ROA are the figures obtained from Islamic banks performance report in Asia.

1.3 Islamic Banking

The important aim and objective of Islamic financial system is to create unity and harmony among the Islamic nation's main purpose of just and reasonable circulation and use of wealth according to the true principles of sharia. It means whole banking system from deposits to product financing to their clients should be according to laws of shariah. Despite of the name Islamic financial system Islamic banking is rapidly growing among the non-Muslim regions due to its hard and fast rules of landings. Finance introduced by shariah is the combination of Islamic economy and modern principles because it sold the products to both Muslims and non-Muslims in a same way. There was only a small portion of market which deals only Muslim community who want to avoid the interest charges. Due to the worst risk management practices by some western economies in crises a number of non-Muslims are in search of low risky alternative.

Nevertheless, as compare to the various conservative sectors Islamic banks are in quite new state. Market players are working hard to for the well growth of its shares for the purpose of worldwide alternative to conventional one. The swift growth is moving toward the profitable opportunities notably. This diverts the old process of number of institutions toward new profitable source.

London has shown its historical contribution as it managed and expanded its prominent position in the world markets to be a hub of Islamic finance. Likewise, Hong Kong, New York, and Singapore are also trying their best for the improvement of Islamic finance in their economies and wishing to gain the strong position of reputable Islamic centers like Kuala Lumpur, as Bahrain, Dubai and Labuan.

The salient feature of Islamic financial system is as its all the contracts are assets base and all the transactions are shariah based which restrains from:

- (i) Debt Trading as it is forbidden (ii) Profit or earning without any effort or activity (Riba)
- (ii) All those operations which are un -lawful or prohibited (shari 'ahcompliant).

Furthermore, the contract between debtor and creditor and their relation is not governed by capital base investment, they share the risk of business in halal type of business.

According to Iqbal, (2001) information & analysis continue, stable growth as well as expansion in Islamic banking system as a proof first creation of Islamic banking structure in the Near East. Growth of Islamic banks takes in three modes. Firstly, the formation of Islamic banks globally, yet in un-Islamic countries including USA & Europe Secondly growth of Islamic banks as well

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as Islamic financial system in several Muslims countries; these countries are Sudan, Pakistan and Iran. Thirdly a number of conventional institutional recognize the profitable outlook of Islamic banking system and take realistic steps for the investment in Islamic financial gaps (Solé, 2007). Čihák & Hesse, (2008,) defined Islamic banks as "the distribution and use of product and other services according to Islamic laws and principles".

According to Kouseret al.,(2011) definition of Islamic banks is as "a system which is based on Islamic laws, rules and regulations of financing".

Since decapods, Islamic banking has become growing sector in the worldwide finance industry. In the latest financial crunch Islamic financial system has shown historical average growth of 15% - 20% (Weill & Ibrahim et al., 2012).

1.3.1 Islamic Financial System, Importance and Aims

According to Dar & Presley, (2001) Islamic banking is alike conventional banking, the purpose of Islamic banks to play a role as mediator and trustee for the investment of the investors to increase the profit. Laws and rules of Islamic banking are quite different from non-Islamic banking; Islamic banks and other Islamic financial institutions do not rely only on the return.

Ebrahim and Joo (2001) found the basic purpose of financial system and system of Islamic banking is to earn profit.

1.3.2 Growth of Islamic Banking

The speedy raise in the rate of interest in Islamic banking system and their confrontation to worldwide financial crunch as well involve positive look at the impact of leverage on their performance. The Islamic banks consider most important cause of financial intermediation; hold on 24 percent of regions total banks assets (Al-Hassan, Khamis, & Oulidi, 2010).

1.3.3 Financial Crises and Reason

Every financial crisis has its distinctive characteristics; Rogoff (2008, 2009) and Reinhart (2008) conclude that numbers of crisis have incredible resemblances.

Interpretation shows that crisis commences from modernization or innovation in few sectors, moreover the innovation generates the high return and many organizations attached to these innovative schemes for gathering the high share of profit. Financial relaxation and no regulation, provision of facilities and incentives to financial sectors in boosting the contact to these latest profitable sectors.

To rise in demand as consequences, to stimulate the raise in debt provided by financial segment, the reason is that share price boom. Finally increase in the price of assets has negative alarm; crisis starts due over leveraged banks and economy collapse. In banking sector crisis reply by government finally led to self-governance leverage crisis.

(Siddiqui, 2009; Chapra, 2009; Shahid, 2009) finds out that world economic crunch dependent on interest rate the recession in business to existing crisis in western countries. The mostly study is personal and there is lack of experimental study for findings of worldwide economic disaster on Islamic bank contrast to predictable ones.

1.4 Problem Statement

According to the findings of the researchers based on the decisions made by managers of the financial institutions in investment opportunities, there are number of ways to follow which result in increase in credit position of the firm. The remarkable growth of Islamic banking structure and their barrier against worldwide crisis it is necessary to check the impact of financial leverage on Islamic banks performance.

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Numerous studies which are conducted in Asian countries are failed or unable to measure the impact of financial leverage on performance of Islamic banks. Menacer, A., Saif-Alyousfi, A. Y., & Ahmad, N. H.(2020), Abdesslam Menacer, Abdulazeez Y.H. Saif-Alyousfi, & Nor Hayati Ahmad, (2019) Setyawati, I., Suroso, S., Suryanto, T., & Nurjannah, D. S. (2017).

The aim and purpose of this research work is to determine the effect of financial leverage on Islamic bank's performance in Asian countries throughout period of 2010 to 2019. Due to the denationalization of state owned banks and liberal of policies in restricted financial sectors, banking system in Asian countries is transformed in last two decades. In emerging Asian economies, the commercial banks started diversification in interest base income to non-interest base income to survive in competitive market environment. Resultantly ratio of non-interest base income largely grown up for the banks of Asian countries. Consequently, there was remarkable increase in the shares of non-interest base income for the Islamic banks of this region the share of non interest base earning has significant increase for banks of this sector. Doumpos et al. (2016).

1.5 Research Questions

Does financial leverage affect the Islamic bank's performance?

1.6 Significance of the study

The research aims at determining correlation between F- leverage and Islamic bank's performance doing their business activities in Asian region. Thus the findings of research study will help managers of the Islamic banking system because it will inform about the impact of the debts on the Islamic banks performance and it will offer instructions and ways how the firms can use the debt. This study will be helpful for researchers and finance managers working and dealing with various forms of finance for making decisions including measurement and evaluation of financial leverage.

It will be useful for the academicians; they can add it in the existing literature on effect of monetary leverage on Islamic banks performance. Moreover, findings of this study will be of the value for the scholars to find the gaps for the inspiration of their interest in further studies and it will provide them with many more useful suggestions, information's and recommendations about the financial leverage and achievement of the Islamic banks.

1.7 Research objective

To examine and find the impact of leverage on Islamic bank performance is the prime objective of this research work.

1.8 Information Asymmetry Theory

According Ross (1977) managers of the firms are possessing lot of information's about future perspective of the organization as compared to the market. Therefore, the option of financial leverage by managers can provide the market with ways of future prospects of the firm. Increase in leverage shows that the managers are much satisfied for the service of interest charges, also confident about the future prospective. There would be ultimate boost in price of the firm due high level of f- leverage since the shareholder's desire this to have a good sign of the size and stable future cash flow.

Fama and French (1988) are not agreeing the theory by giving their arguments that firm with high profitability tending to have very low level of debt. According to them an increase in debt level will be a poor signal for the future prospective of the firm. since there will be a negative impact on future income due to cash flow which used for the debt services reduction in the sum of money available to finance the future development.

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1.9 Signaling Theory

Signaling theory says that the issuance of equity and debts are good signals because the issuance and debt is good sign, due to debt the market price of the share increases (Berk & DeMarzo, 2007) there is an increase in the level of confidence of investors in their business operations and the firm also gains confidence in order to generating the maximum cash flow to avoid the interest and it serves as positive sign for sound and strong condition of cash flow. Whereas on the other hand the issuance of equity shows negative signals and less confidence of investors of business because the stock value is overvalued as stated above Kabir and Roosenboom (2001) are of the opinion that due to equity there is reduction in stock price and it is considered as bad news for investor's point of view.

Ross (1977) explains that a firm which possess maximum amount of debt shows high value and quality because it provides the good signals that firms get higher level of confidence for the generation of maximum and stable cash flow for the recovery of due debts and interest.

All the above mentioned theories have an association with the existing body of literature but the signaling theory is strongly persistent with the results obtained from this research work.

2. REVIEW OF LITERATURE

Number of studies conducted on financial leverage which is providing various views regarding the connection between leverage and performance of the firms. Some are showing significant relation whereas some are showing insignificant link between the financial leverage and performance of organization. Though available studies are helpful to review empirical studies conducted all around the world on the F- leverage and performance of firm, but there is need to conduct the research regarding financial leverage and its outcomes on Islamic banks in Asian region as well.

Therefore, current research work is an effort to fill the gap by addressing possible outcomes of monetary leverage on the Islamic banks in Asian countries. Research work is designed to examine the impact of financial leverage on the performance of the Islamic banks with the help of debt to equity ratio.

Banks' performance is measured with the help of return on assets (ROA), and return on equity (ROE) whereas Bank efficiency (BE), and Bank size (SIZE) are the variables which are used as control variables in the study.

Various research studies have measured the relation b/w leverage and firm performance, among others are (Titman and Wesel, (1988), Mester, (1993), Pi and Timee ,(1993), Gorton and Rosen,(1995), Mehran ,(1995), McConell and Serves, (1995), DeYoung, Spong and Sullivan ,(2001) Most of these are of the opinion that capital structure and different control variables have correlation with the firm's value. Thus current research work aimed at finding an effect of leverage on the value of Islamic banks specifically in Asia.

Berger & Di Patti (2002), Described that due to high financial leverage there will be a decline in the value of agency cost. If all the other factors remain constant, there will be remarkable growth in the value of firm because of high leverage.

Hashmi and Zadh, (2012) study expected to test the impact of monetary influences on profit planning. The exploration study comprises of seventy-five public business entities on Tehran Stock Market during the period of 2003-2010. The inquiry utilized number of relapse to test the

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theories. The outcomes show that there is connection between money related influence and profit strategy and in this manner, the firms that have higher influence will have appropriate less benefits to shareholders when compared with organizations with lower influence.

Subai'i (2012) study analyzes the connection between monetary leverage influence and profitability for assets at the degree of every part of the three monetary segments of economy of Kuwait. The investigation test comprises of (54) organizations which were the Kuwait public shareholding organizations. The examination presumed that there is a significant connection between budgetary influence and rate of profitability for all economic divisions.

Al Nuaimii et al (2011) research planned to examine the effect of subsidizing blend in market estimation of insurance agencies recorded in Jordanian Financial Market. The investigation test comprised of the insurance agencies recorded in Amman Stock Market (ASM) so as to check the impact of Leverage on every one of normal stock profit for the return on value and income per portion of profits and friends market esteem. Examination utilized basic relapse and multi-way investigation to check the connection among the factors. The investigation reasoned that influence and profit for value have no impact with a measurably huge in insurance agency's offers market an incentive in Jordian markets.

Another research study found positive association capital structure and bank operations. In this research study data is taken from period 2009 to 2014 of 17 banks (Nikoo, 2015). Another research study explores that there is significant relationship b/w capital structure and firm performance. The research study use data from period 2006-2009 by taking the 100 firm (Umar et al., 2012).

Most of the research conclusions are disclosed approximately the connection among company boom and monetary leverage. The very last result reviewed that there's a sizable relationship among the F.leverage and the firm overall act as measured by means of return on asset. The effect of financial leverage on economic performance turned into investigated via Gweyii and Karanjaa (2014) as the impact of monetary leverage at the financial overall performance of deposits-taking saving and credit firms in Kenya. Researchers decided on sample facts were forty saving and credit co-operative societies from 2010 to 2012 duration. Used secondary records of financial statements had been accrued for analyzing. Financial leverage changed into the independent variable and it became measured with the aid of the debt-fairness ratio. The structured variable become economic performance and it measured by using profitability, go back on fairness, returns on property and earnings increase. Finally, researchers observed that there's a sturdy correlation between financial leverage and economic overall performance of deposit taking saving and credit corporations in Kenya.

Al Taleb, and Al Shubiri (2011) take a look at examined profitability, boom in funding opportunity, belongings size, and liquidity variable. The examiner linked those variables with debt with look at pattern. The examiner model of 60 business enterprise indexed in Stock Market of Amaan. They have a look at results indicated that the debt has a high quality relation with increase price in total amount of assets, while it has an inverse courting with the liquidity and capital structure, in contrast the take a look at confirmed that growing investment possibilities variables have a superb dating with time-consuming debt, and property size variable has no appropriate relation with long term debt and an opposite relation with short-time period debt, and it is also confirmed that profit and liquidity variable have no courting with exchange in debt length. Mahira Rafique, (2011) examine aim at analyzing the impact of company profitability and its monetary leverage on capital formation in car region companies in Pakistan. To acquire

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the studies dreams the capital shape of 12 indexed companies was analyzed by adoption of econometric frame for the period of 5 years. By testing regression analysis and inspecting the relation of estimated version via Correlations Test, they have a look at observed that the productivity of the organization and its economic leverage don't have any full -size effect on the capital shape of the firms at some stage in period of assessment. Furthermore, there was not massive relation between productivity and leverage on the capital structure of a company.

Jang and Tanag (2009) determined U fashioned courting between economic leverage and fertility from an evaluation of accommodations groups. This takes a look at shown that monetary leverage is more carefully related to profitability than global diversification (Jang & Tang, 2009).

The results of economic leverage on company performance have additionally been a subject for decades. First, high financial leverage is understood to be positively associated with organization performance due to better outside supervision. As Ilyukhin (2015) describes, commercial banks set up a chain of financial conditions for corporations that borrow from them, and to fulfill those conditions, managers have to work tough and enhance company performance. In addition, Jensen and Meckling (1976) endorse that high monetary leverage leads to low agency prices for all capital sources, and further, increase company performance. Finally, however importantly, Jensen (1987) suggests that higher financial leverage manner better interest cost and lower free cash glide, which potentially reduces the enterprise expenses of loose cash flow and will increase firm overall performance. However, in contrast, high financial leverage may negatively impact organization performance as a result of default hazard, as Kraus and Litzenberger (1973) illustrate. They claim that financial leverage results in corporation insolvency and triggers financial ruin costs, which probably reduce firm performance. Moreover, Bradley and Kim (1984) propose that higher financial leverage consequences in heavier "leverage-related" fees, including financial ruin penalties and the organization prices of liabilities, and waste non-debt tax shields, which damages corporate earnings. As we can observe from earlier studies, they are greater consciousness on the accounting overall performance and advise the mechanical possibility of the different outcomes of financial leverage. Although we are not check out mechanical consequences, for the reason that stock overall performances understand the account performance, we agree with the effects additionally exist for inventory performance.

2.1 Firm Performance

Major characteristics of the firm performance are defining competitiveness, business potentials and economic intension of firm (Dufera, 2010). Financial performance majorly focuses on the elements which can affect the financial statements of the firms. The firm performance analysis deals in various things such as sales turnover, growth of dividend and employed capital and other assets of the firm (Omondi & Muturi, 2013).

A research study has investigated the relation b/w product market competition, capital structure and firm value that conducted in South Africa. In this research ROA and Tobin Q were used as measures of performance. This study found positive association between performance and leverage. In the relationship between performance and leverage, role of product market competition is very important (Fosu, 2013).

Another research study conducted on the listed corporations on KSE Pakistan between firm performance and financial leverage and found significant relationship between financial leverage and firm performance (Raza, 2013).

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Succession of some important economic units such as completion of goals and objectives is always measured through the performance of the firm (Xu & Wanrapee, 2014). Firm performance and the finance which a firm has is the major consideration of the shareholders (Nyamita, 2014).

Financial performance can be explained the ways by which the objectives of the firm can be achieved (Yahaya & Lamidi, 2015).

2.2 Financial Leverage

Financial leverage is a fundamental decision preferred by firms to utilize the mix stream of debt and equity in order to finance the number of activities such as investment and other general operations (Gill &Mathur, 2011).

Financial leverage refers how business firms use the mixture of both equity and debt to finance their assets (Rehman, 2013).

In the research study (Barakat, 2014), the variables leverage, profitability and the financial arrangement are explored by using Saudi Arabia manufacturing companies. Results show positive relation b/w capital structure and (ROE) which is used as independent variables while stock market price is used as dependent variables. This study found weak and negative relation between stock value and financial leverage. This study found positive association between ROE and capital and significant relation between stock value and capital structure. Another research work obtained positive and significant affiliation between worth of the firm and financial leverage. Firm value is measure by Tobin's Q. While there is significant relationship between Tobin's Q and Firm size (Farooq & Masood, 2016). Adenugba, Ige & Kesinro, (2016). Explain amount of debt which is utilized by firm in its structure of capital known as financing leverage. Leverage is known as firm, fixed financial expense because it is the fixed obligation used for payment of interest.

Therefore, on the basis of above mentioned literature and evidences from previous studies by researchers (as mentioned in literature review) researcher will go to check out how performance of Islamic banks is affected by financial leverage. So the below mentioned hypothesis has been formulated as proposed hypotheses for current research study.

H1: There is correlation between financial leverage and Islamic banks performance.

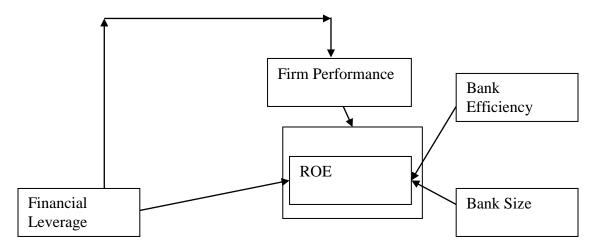
H2: Financial leverage has significant impact on the performance of Islamic banks (ROE).

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2.3 Theoretical Framework

Figure: 2.1



Theoretical background of current study based on signaling theory and its description. Signaling theory says that the issuance of equity and debts are good signals because the issuance and debt is good sign, due to debt the market price of the share increases (Berk & DeMarzo, 2007) there is an increase in the level of confidence of investors in their business operations and the firm also gains confidence in order to generating the maximum cash flow to avoid the interest and it serves as positive sign for sound and strong condition of cash flow.

Jensen and Meckling (1976) are of the opinion that agency cost theory started from reality is that debt finance is acting like controlling instrument that restricts the managers from selfishness and freedom of expenditures spending in unnecessary and lavish manners on the behalf of the value and performance of the firm.

Signaling theory for the capital framework explained that if due to the financial leverage there is an improvement in the value of the firm signals.

Research Model of current study is combination of the relationships among two variables financial leverage (IV), and firm performance (DV). The determinant for firm performance that is used in current study is ROE.

3. METHODOLOGY

3.1 Dependent Variable

3.1.1 Firm Performance

Iswatia, & Anshoria, (2007), Explain performance refers to an ability of entities by managing the resources in various ways for the accomplishment their goals or for the achievement of their objectives. Mainly it focuses on those variables which are closely related to the financial statements.

Several measures for the firm performances such as return on sales shows that what company earns in relation to sales, ROE explains what amount of return is taken by the investors for their investment (Almajali, Alamro and Al-Soub ,2012).

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3.2 Independent Variable

3.2.1 Financial Leverage

In order to enhance or boost the taxes and profit Financial leverage is used, and is equal to the ratio of loans and total liabilities.

A firm which is comprises of owner equity and debt is called levered firm whereas all-equity firm is known as unlevered firm. (Andy, Chuck & Alison, 2002). Because with the increase of debt financial leverage increases.

Pandey (2010) examines that financial leverage occurs if there is low financial interest or there is no fixed financial interest. it is said that a firm may be unlevered or levered.

3.3Data Environment

The study is comprising of 20 listed Islamic banks from Asian region. Ten years (i.e., 2010 to 2019) data set involved the 20 Islamic banks from Asian region. Thomson Reuters DataStream will be used to retrieve the data.

3.4 Variables measurement

3.4.1 Variables Description and Model Specification

Variable Type	Variables	Short Name	Measurement	
Independent Variable	Financial Leverage	(FL)	Equity to Total Liabilities	
Dependent Variables	Return on equity	(ROE)	Net Income / Common Equity	
Control Variables:	Variables: Bank efficiency		Cost of the Total Income	
	Bank size	(SIZE)	Log of the total Assets	

Data of current research study is estimated by using following econometric model:

ROE it =
$$\beta$$
 0+ β 1 FL+ β 2 BE+ β 3 SIZE + ϵ it

(1)

In the above econometric model

(ROE) stands for Return on Equity; (FL) is Financial Leverage, (BE) means Bank Efficiency and SIZE refers to Bank Size

In the above mentioned equation

1. For measuring the relation between financial leverage and (ROE).

3.5 Data Analysis Technique

For analyzing the data of current research work the researcher will apply E-Views software to run the various tests. Firstly, researcher will run the Descriptive statistics to find out Mean, Median and Standard deviation of the data. Secondly researcher will run correlation test to check the association among the variables of the research work. The following test will be run to check the relationship among various variables of the study: Common Effect, Fixed Effect, Likelihood, Random effect and Hausman Test.

Then hypothesis of study will be tested to see the association b/w the F- leverage and Islamic bank's performance in Asian countries.

4. RESULTS AND FINDINGS

4.1. Introduction

The chapter three briefly explained the method of investigations about study topic. However, the chapter four is working on the analysis of the study by basing on the chapter (03)

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schematic work. Thus, the researcher obtained the secondary data. As empirical chapter, the study has used the frequency tests as descriptive. In next part, correlation tests are implied after data normality through Skewness and kurtosis. Further, fixed effect regression test is applied to check the data impact of experimental variables with dependent variables.

4.2 Descriptive Statistics

The table 4.1, in this study describes the behavior of data about all existing variables in the model from the duration of 2010 to 2019. Descriptive statistics of financial leverage and firm performance measures i-e ROE, separately explained. Data behavior was investigated to explore the accuracy before examining other statistical test. The descriptive statistics analysis shows the summary of data that contain average value of mean, lower value in the data set shows by (minimum), high value in data shown with data set (maximum) and measurement of dispersion (standard deviation). The mean value description about average of data, spread and measure of dispersion in the value of the data from mean and standard deviation and mean has low due to the used as separately and minimum and maximum values shows the current series of data.

In below table dependent variable bank performance measure through the combination of return on asset and return on equity in the 25 Islamic banking sectors. In this table explanation of return on assets and return on equity has been explained through the value of minimum and maximum strength from the selection of all Islamic banks, in which rear any bank hold maximum assets and equity returns and also shows that difference with standard deviation value. In this table also explanation of financial leverage as independent variable, in which value of mean shows that average value of financial leverage, minimum and maximum value shown low leverage and high leverage respectively. The standard deviation value of the financial leverage has been recorded as difference among the variables during the 2010-2019. The descriptive statistic table also explores the controlling variables description for mean, minimum, maximum, standard deviation.

Table: 4.1 Descriptive Statistics

	Mean	Maximum	Minimum	Std. Dev.	Observations
ROE	0.6703	5.5241	0.1182	0.6410	230
FL	0.1989	0.9612	0.0102	0.2568	230
BS	9.2932	16.3006	5.1976	3.4648	230
BEF	17.0799	35.3314	0.0183	6.0604	230

In above table 4.1, description about study variable has been explored briefly. The mean value of ROE return on equity is (0.6703), it explains the average Islamic banking performance having a 67.03% return on equity so it is higher than assets return value its mean mostly firms having high volume of shareholder's equity strength with value of standard deviation value (0.6410), in which difference in return is 64.10% during the 2010-2019 Islamic banking sector. The maximum value is (5.5241), it shows the higher rate of asset equity is 5.52% and minimum value is (0.1182), it shows that lower rate of return on equity is 11.82% during the 2010-2019 Islamic banking sector.

The mean value of FI financial leverage is (0.1989), it explains the average Islamic banking performance having a 19.89% financial leverage with value of standard deviation value (0.2568), in which difference in return is 25.68% during the 2010-2019 Islamic banking sector. The maximum value is (0.9612), it shows the higher rate of equity return is 96.12% and minimum

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value is (0.0102), it shows that lower rate of return on equity is 1% during the 2010-2019 Islamic banking sector.

The mean value of BS bank size is (9.29), it explains the average Islamic banking performance having a 9% bank size with value of standard deviation value (3.4648), in which difference in variation of bank size is 3.46% during the 2010-2019 Islamic banking sector. The maximum value is (16.30), it shows the higher ratio of bank size is 16.30% and minimum value is (5.19), it shows that lower ratio of bank size is 5.19% during the 2010-2019 Islamic banking sector.

The mean value of BEF bank efficiency is (17.07), it explains the average Islamic banking work efficiency having a 17.07% with value of standard deviation is (6.06), in which difference in variation of bank efficiency is 6.06% during the 2010-2019 Islamic banking sector. The maximum value is (35.33), it shows the higher ratio of bank efficiency is 35.33% and minimum value is (0.01), it shows that lower ratio of bank efficiency is 1% during the 2010-6.02019 Islamic banking sector.

4.3 Correlation Analysis

Correlation analysis showed to determine the relationship between financial leverage and Islamic banking performance. In our study also examine the potential multicollinarity problem. Multicollinarity problem check with the formula (VIF=1/1- Adjusted R-squared). According to the formula all values of VIF below the value of 3, so according to the standard value of VIF all values of VIF less than threshold value 10. Therefore, no multicollinarity issue in research model. In below Table 4.2, examined Correlation analysis among all financial leverage and responding variables. To check the strength of relation among variables with direction of positive and negative measured through correlation matrix. The range for correlation analysis is (-1 to +1) which shows that correlation between variables. If value less than 0 value shows that negative relationship and if greater 0 value its mean positive relationship among variables. (+1, -1) shows the perfect correlation among variables.

Table: 4.2 Correlation Analyses

	ROE	FL	BS	BEF
ROE	1.00			
FL	0.04	1.00		
BS	0.04	(0.63)	1.00	
BEF	(0.34)	0.29	(0.60)	1.00

In Table 4.2, correlation analysis analyzed no multicollinearity issues in panel data of 10 years of Islamic banking sector because values relay below the 0.63 correlation outcomes described the significant correlations all the values has below 0.63.

In Table: 4.2, the coefficient value of financial leverage (FL) 0.22 indicates positive correlation. The value shows positive correlation among financial leverage and return on assets, due to the lower debt financing Islamic banking sector. The coefficient value 0.04 shows that positive correlation among financial leverage and return on equity.

The value of Coefficient for bank size BS is 0.29, it shows that positive correlation between bank size and return on assets in Islamic banking sector, the coefficient value 0.04 shows that positive correlation among the bank size and return on equity, the coefficient value 0.63 shows that high

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positive correlation between bank size and financial leverage in Islamic banking sector duration of 2010-2019. The next one coefficient value of bank efficiency BEF is 0.58, it shows that positive correlation, the coefficient value 0.34 shows that positive correlation among bank efficiency and return on equity, the coefficient value 0.29 shows that positive correlation between bank efficiency and financial leverage, the coefficient value 0.60 shows that positive correlation among the bank efficiency and bank size in Islamic banking sector during the 2010-2019.

4.4 Panel Regression Analysis

In the below **Table 4.3,4.4,** panel-regression analysis has been described the effect of financial leverage with controlling effect of bank size and bank efficiency on Islamic banking performance with measure of ROE. However, study found that direct effect of independent variable financial leverage with different proxy measures. The study has found the direct significant/positive or negative role of financial leverage for adjusting the Return on Equity in Islamic banking industry of Pakistan. Regarding to the direction of likelihood ratio test fixed model was suitable for hypothesis improvement as final analysis. According to Hausman test and redundant test suggested the common and random effect model were not suitable for the final interpretation. The fixed model and random effect model R-square and p values were mostly significant and accepted range then fixed effect model were finalized for further analysis.

4.4.1 Model 2 Dependent Variable Return on Equity

The below fixed effect model test examined the impact of financial leverage on return on equity with controlling role of bank size and bank efficiency. But before applying the fixed effect model study has been checked its consistency through likelihood and Hausman test, both these test will provide the suggestion for final selection of any model from common, fixed and random effect model.

4.4.1.1 Likelihood Test

Null hypothesis results show that common effect is appropriate Alternate hypothesis results show that fixed effect is appropriate

Table: 4.6 Likelihood Test

Redundant Fixed Effects Tests			
Effects Test	Statistic	d.f.	Prob.
Cross-section F	6.070688	(22,204)	0.0000
Cross-section Chi-square	115.830042	22	0.0000

4.4.1.2 Hausman Test

Null hypothesis results show that Random effect is more appropriate Alternate hypothesis results show that fixed effect is more appropriate.

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Table: 4.7Random Effects - Hausman Test

Test Summary	Chi-Sq. Statistic Chi-Sq. d.f.		Prob.
Cross-section random	20.055094	3	0.0002

4.4.1.3 Fixed Effect Model

According to direction of likelihood test study has applied the fixed effect test to check the effect of financial leverage on return on assets as Islamic banking performance.

Table:4.8 Fixed Effect Model

Dependent Variable: ROE				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	-0.348001	1.536708	-0.226459	0.8211
FL	-1.111289	0.269348	-4.125845	0.0001
BS	0.170424	0.165097	1.032263	0.3032
BEF	-0.020166	0.011008	-1.831868	0.0684
R-squared	0.491779	Mean dependent var		0.670316
Adjusted R-squared	0.429497	S.D. dependent var		0.640994
S.E. of regression	0.484154	Akaike info criterion		1.493299
Sum squared resid	47.81856	Schwarz criterion		1.881951
Log likelihood	-145.7293	Hannan-Quinn criter.		1.650073
F-statistic	7.896010	Durbin-Watson stat		1.118130
Prob(F-statistic)	0.000000			

Note: The above table depicts the results for linear panel data regression model with using the 25 Islamic banks and 10 years fixed effects. The dependent variable is the return on equity (ROE) and the independent variables were financial leverage. In further statistically significant level is 1%, 5% and 10 percent respectively.

In the above **Table: 4.5** financial leverage and return on equity has been described briefly in the context of hypothesis improvement. To determining the relationship of financial leverage and its influence on banking performance with controlling role of bank size, bank efficiency, the fixed effect model is used for the hypothesis's improvement. The above table is included dependent variable ROA and independent variables financial leverage, controlling variable bank size and bank efficiency in Islamic banking sector. The above **Table 4.5** shows that value of R² (0.51) in the model which includes financial leverage shows only 51% return on assets performance of the Islamic banking has been examined through the independent variable of this study, in other words variation in return on assets outcome due to the other independent variables in the field of banking sector. However, the R-squared value builds a suitable source for the model of financial leverage and Islamic banking performance.

H1b: Financial leverage has positive impact upon Islamic banks performance through return on equity.

Financial leverage has a positive influence on Islamic banking performance with measure of return on equity. In above model FL (financial leverage) found that statistically significant at the

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level of (p<0.05) with coefficient value (β = -1.11). These values shows that financial leverage significantly negative influence on return on equity. Similar findings in the study of Abubakar (2015)Nikoo, S. F. (2015),Thabang and Maina (2014), Vitolla, F., Raimo, N., Rubino, M., &Garzoni, A. (2020), in which examined the negative impact of leverage on return on equity.

The coefficient value of bank efficiency (BEF) coefficient value (β = -0.020), significant at the required level of (p<0.05) and bank size insignificant at the level of p>0.05. The control variable bank efficiency value shows that significant inverse relationship with dependent variable return on equity its mean study controls the effect of financial leverage through bank efficiency improvement. According to these outcomes hypothesis 1b has been rejected statistically, because required results does not meet the threshold. According to the both fixed effect model findings hypothesis 1 has been approved, because in both model financial leverage p value found that significant at the level of p<0.05. So with respective of the threshold values and outcome of this study hypothesis 1 has been accepted.

4.5 Summary of Hypothesis

The aim and objective of study was to determine the association between F- leverage and firm performance, financial leverage is an independent variable and measured by equity to entire liabilities, whereas dependent variables ROE was the determinant of Firm performance and measured by net income /assets and net earnings/ total equity correspondingly.

To meet the objective of this research following Hypotheses were tested which were based on the wide-ranging literature review.

<u>Hypothesis</u> <u>Status</u>

H1: There is significant correlation between financial leverage

And Islamic banks performance.

Accepted

H2: Financial leverage has positive effect on the performance

Of Islamic banks (ROE).

Accepted

The aim and objective of research work was to check the effect of Financial Leverage on Islamic Bank's performance which is achieved successfully. All the required results according to Hypothesis of the study are persistent with the Hypothesis mentioned above which can be helpful for the researchers in the future.

Most of the results are persistent with the previous studies described in Literature of this research work, Firer et al, (2004), Ward & Price, Sharma, (2006), found in their works that financial leverage has significant and positive impact on the firm value.

Many prior studies which were conducted Ebiringa, Oforegbunam Thaddeus ,Ezeji, E. Chigbu (2012) explained positive and significant connection of financial leverage on firm value.

Wainaina (2014) and (zafer ,Zeeshan et al.,) also explained the encouraging and significant link between firm performance and financial leverage.

CONCLUSIONS AND RECOMMENDATIONS

This research work aims at shaping the impact of leverage on performance of Islamic banks in Asian countries. (ROE) and (ROA) were used to measure the Islamic bank performance whereas the financial leverage is independent variable. The total number of 25 Islamic and semi Islamic banks is the part of analysis of this study for the time period from 2010 to 2019 namely Bahrain, Bangladesh, Qatar, Indonesia, Malaysia, Srilanka and Pakistan are the part of analysis of this study.

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In the light of the results obtained significant association between the bank performance and financial leverage which shows that an increase in the equity will result in the increase of Islamic bank performance (ROA,ROE) in Asian Islamic countries, These results differ from the agency cost theory which says high financial leverage cause in decrease in the overall performance of firm . However results support the signaling theory which claims the higher performance of banks due to increase in equity.

Results of the study imply the requirement of those Islamic banks which can maintain maximum financial leverage for the achievement of efficient and sufficient profit or able to have a low financial leverage for the reduction of risk. It is also noted that Islamic banks having high level of financial leverage are in a good position to obtain high financial benefits through tax income or the bear high cost of debt in term of interest reducing the profit. On the basis of this financial leverage used by Islamic banks is depending on flexibility in the adjustment of the value of their debt and their power of earning. This research study has main focus on Islamic banks in Asian region. Therefore, there is a need of more comprehensive and detailed studies to check the effect of leverage on listed and unlisted Islamic banks as well in Asian countries to make the findings and results of this research work more sound and strong.

Although, in this research work we have used debt and equity ratio as a measures in current study to achieve the maximum level of financial leverage but other measures can also be applied when there is large number of Islamic banks for the achievement of maximum stage of F-leverage which are not part of this study such as WACC. Main focus of this study is the Islamic banks in Asian countries. Globally there are more than 150 Islamic banks, while only 25 of them are part of this study. The results of this research study cannot be considered for all Islamic banks worldwide. Islamic banks which are the part of this study are different in term of economic condition, business activities currencies and other environment, the effect of financial leverage on the profitability of individual Islamic bank is not considered in this work. Therefore, the effect of financial leverage on the performance of Islamic banks is examined combine for Asian region rather than individually. It is also noted that the results are only limited to the financial firms only therefore it is recommended that non-financial firms can also be part of this study or findings can be generalized to non-financial listed banks, because the financial institutions have quite different accounting rules from non-financial institutions and have quite different uniqueness from one another.

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