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4 Abstract

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5 Study objectives: Outlining the situation of the Jordanian housing market. Outlining the

⁶ government effort in the housing market. Evaluating the Jordanian commercial banks in

7 financing the housing market. The study problem: What is the role that Jordanian commercial

⁸ banks play in the financing the sectors of construction and housing markets. The statistical

⁹ method used: Descriptive statistical methods of tables that required percentiles, Deciles, and

¹⁰ a measure of location of the averages 'Mean'.

12 Index terms— commercial banks, role, finance, jordanian, housing.

¹³ 1 I. INTRODUCTION

ordan is a small country with a growing and stable economy among its neighbouring countries in the region. 14 Thanks Allah the merciful of stability in comparison with other unstable economies in the region, due to the 15 political turmoil. Jordan natural resources are scarce, Jordan mostly rely on business services sectors such as, 16 education, insurance, finance and banking, tourism, and of-course a booming realestate and construction sectors. 17 Housing is a core issue that governments have to meet its obligation, in offering suitable homes with reasonable 18 prices and costs to its citizens. Governments have to find alternatives of financing in all fronts. By encouraging 19 20 local and foreign investors, commercial banks and financial institutions, by offering the incentives needed such 21 as, legislatives, regulations, and tax cuts. etc. Housing and construction sectors in Jordan. Government have spent numerous efforts in enhancing residential housing market in the face of growing demographic factors. The 22 peak of the demand reached the highest level ever in 2004 with Iraqi's war refugees and continued until now with 23 Syrian crises. Therefore the government had to restructure its real-estate of residential and rental regulations 24 and strategic planning in 2010, to keep with local and nonlocal demand. This kind of huge demand to buy and 25 rent real-estate have hiked up the prices and costs to a very high; and expensive levels that made it very hard 26 for poor, low, limited, and middle incomes; of Jordanian families to rent, own, or even finance suitable housing. 27 Having suitable housing is a dream now days. This study will discuss some of Jordanian macroeconomic factors 28 in relation to its housing, and construction market. An overview of Jordanian commercial banking Author 29 ? ?: Researcher 2017 Jordan. e-mail: mm.saho@yahoo.com sector, definition, and system is a necessary to be 30 cleared out, before start discussing the Jordanian housing and construction segments. Outlining other limitations 31 and financing in the market; Then this study will also discuss the role of commercial banks, and the measures 32 that have been taken to help enhance and emphasis the commercial banking role, by establishing the public 33 companies of Jordan Mortgage Refinance (JMRC). In addition the government local agency of Housing and 34 Urban Development Corporation (HUDC) will be in the heart of the discussion of the housing market. 35

The study problem: What is the role that Jordanian commer cial banks play in the financing of both sectors of construction and housing in the Jordanian markets?

In answering this study problem from every angle and aspect another questions are required: 1. What are the laws and principles that control commercial bank loans and what are its objectives? 2. What are the process and procedures in commercial banks, in order to give housing loans to individuals and investors? 3. What are the alternative of housing finance that can enhance the help for low, limited, and middle income of Jordanian individuals?

44 3 II. THE IMPORTANCE OF STUDY

45 Housing market and construction considered both of the highest importance sectors. To the stabilization of 46 Jordanian economy, as well as, to the social fabric of the society. As whole. Therefore the investment in

construction and housing market will activate the Investment in other related industries. Measuring and assessing

48 banking finance role in the market, will help enhance their role, in order to identify other ways of Financing,

49 through the help of public and government finance institutions; and increase. The people awareness of the housing 50 market.

51 4 b) Study hypotheses

Answering the main problem of banks role in financing the housing market, there is still a large gap that needs to be fulfilled.

54 First hypotheses: CBJis normally the one controls the laws and Principles, by the authority of the government.

55 Commercial banks objectives are motely Profitability. Second hypotheses: most of the process are consist 56 of examining the borrower's reputation and character regardless if its businesses, or individuals, acknowledge 57 the intended use of the loans, and what is the primary, as Well as, secondary sources of repayments. Third

⁵⁸ hypotheses: HUDC gives some incentives that might help. JMRC offer commercial banks alternative through

59 refinancing mortgage loans.

60 5 c) Previous studies

61 Commercial banks role in financing the housing Sector in Algeria; has been offered in the University of 62 (Muhammad keder) In Bskera-Algeria. The Objectives were: introducing the banks role and support for 63 mortgages, Showing the housing situation in Algeria, state policies that been implemented to revive The sector, 64 and how the national box for saving and reserve finance the housing sector. The statistical methods have been 65 used are the description, inductive, and case study. The results were that there are strong interlink between the 66 banking sector and housing Sector, the absent of financial market will result on letting the banks to charge higher

67 Interest rate on housing mortgages. Identify study methodology & Statistical methods. Descriptive statistical

68 methods of tables that required percentiles, Deciles, and a measure of location of the averages the 'Mean'; will 69 be used.

⁷⁰ 6 d) Study location and Time periods

This study would assess the role of commercial banks in financing the housing Sector in Jordan From the year2000 to the year 2015.

73 7 e) Study parts

In order to examine the study from every aspect, test the accuracy of hypotheses and Reach to the final results
 this study has been divided into four parts as follows:

1. Jordanian macroeconomic. 2. Jordanian commercial banks. 3. Jordanian housing market.

77 8 The role of commercial banks in financing the

78 Jordanian housing sector.

79 9 f) Jordanian macroeconomic

Jordan is a small country with limited resources that has its share of high inflation and unemployment rates. 80 Jordan also has the lowest household incomes in the world with high population growth. Despite all of those 81 bad macroeconomics indicators Jordan has managed to stabilize its economy mainly, because Allah has blessed 82 Jordan with good leadership that has a good relationship with its own citizens that led to stable political and 83 social environment. This kind of environment has been backed up with authority to the government to set 84 up laws, and regulations into all and major core economic sectors that has been contributed to This kind of 85 economic stability, of which those laws and regulations are not founded in a lot of the neighbouring Countries 86 in the region. Two of those major sectors that have contributed a great deal to the economic indicator of the 87 gross domestic product are; banking system, and Real-State market especially the residential of housing and 88 construction segments (EL-Quqa, et al., 2008) 89

⁹⁰ 10 g) Jordanian government

Government has made some reforms and initiatives, to sustain the stability of both Sectors, in order for banking sector to get more involve in financing the residential, and housing market for all types of households' income and individuals, and for investors of those residential construction, in order to meet the grater and increasing demand in this market. Those reforms have been focused on finding, and creating alternative ways of financing, by helping banks to extend their credit Facilities in one hand, and to encourage local and non-local investors on the other. Jordanian government have also tried to control public debt, by decreasing some of its own and public expenditures; opening the economy and encouraging foreign direct investment, by implementing privatization plans and policies. Over all Jordan has succeeded in staying away from Political conflicts thanks all to Allah the merciful and magnificent of his own people, of Which this blessing has contributed to the stabilization of the economy, regardless of The limited resources and the economic challenges, pressures, and all those bad economic indicators. Speaking of indicators here are some figures and numbers of Jordanian microeconomic factors of the current situation, of which Jordan has improved regardless of the huge population growth since 2000 of more than 75% to 80% in ??015

¹⁰⁴ 11 III. Jordanian Commercial Banks a) Definition

Banks in general have so many definitions according to laws and regulations that control and own those type of 105 institutions. The historical Islamic definition of the banking system is the responsible individuals that people can 106 trust, in order to leave their valuables within their hands safely in one condition of taking back their valuables 107 whenever they want. Those individuals can be a firm, or a business of which they can charge a fixed fee for 108 people depositing their valuables; and withdrawing them again whatever and whenever they chooses. Those 109 110 valuables will include money, gold, silver, and valuable belonging. Therefore banks definition for the last century has developed, to be the understanding of an establishment of money exchangers' place that they would accepts 111 people money and deposits; in return people would take deposit receipts to guarantee their ownership, and pay 112 113 fixed fees to keep their money with them. Later those exchangers' have learned that depositors, don't withdrawn their entire deposits completely. Therefore they have started lending some of those deposits back to others 114 with interests. The definition of commercial banks, as of those establishments that have been licensed to do an 115 exchange and monetary operations, of which include but not limited to accepting deposits, of all types, and use 116 them with other resources in investments partially, or completely in any ways that the laws would allowed them 117 to. The main purpose for commercial banks is profitability (Abdallah and Altrad, 2011). 118

Jordan has recognized the importance of the banking system to its economy, and what can add to it, in 119 120 terms of economic stability and growth early on in the century. The banking sector can influence, and help its economic factors such as, employment, foreign financial investments, deflation, education, foreign currency 121 reserves, and be the core of producing and reproducing other related sectors and industries, such as insurance 122 companies, real-state, and construction projects. Therefor Jordanian government had worked hard in establishing 123 their solid, and well experienced central bank CBJ in 1964. in order to ease and control the country monetary 124 policies, and monitor the banking sectors of; local and privet commercial banks, regulating the size and types 125 of credit facilities, issuing the national currency, reserve of gold and foreign currency, and be the only source 126 authorized by the government to issue banking licenses. The core purpose of the CBJ is keeping and protecting 127 the monetary stability in the country; by ensuring and guaranteeing the exchange of the Jordanian national 128 129 currency the DINAR (JOD). CBJ has to do that, in order to encourage the economic growth that would be in 130 agreements with the general economic policy of the Jordanian government. Now Jordan has more than thirteen 131 local commercial banks with three Islamic banks, and nine foreign commercial banks. The total account of twenty five banks with over 550 branches of those commercial banks scattered all over Jordan. The majority of them are 132 133 in the big cities, such as the capital Amman, Irbid, Zarqa, and the port city of Aqaba. In addition to a bunch of specialized credit institutions of public and privet sectors, such as The Arabic Egyptian Real-Estate bank, and 134 government agency of Housing and Urban Development Corporation HUDC (Abdallah and Altrad, 2011). 135

12 IV. Jordanian Housing Market a) Housing segment general overview

Housing market segment plays a vital role in any country national macro, as well as, micro political, economic, 138 and social stability and growth. Housing is the basic need and right for every citizen that occupied the land that 139 they live at. Government have the obligation to provide, offer, and meet those basic need and right of every one 140 of its own citizen. Housing is the core issue, of which any government housing policy has to be the centre of its 141 general political development, in order to be successful in providing and helping every type of poor, low, limited, 142 as well as, middle and high household income citizens. Housing is important for the health and well-being that 143 it reflects the family structure, quality of life, and national economic prosperity. Housing segment has an effect 144 on most interrelated industries such as, real-estate, construction, and finance. Therefore finding suitable housing 145 require the combining effort of the public and privet sectors. It is worth noting that capital average income and 146 extended capital credit are major factors in housing market segment (Al-Homoud, et al. 2009) 147

¹⁴⁸ 13 b) Jordanian housing

Housing market in Jordan has developed a great deal within the period of ??2000) ??2001) ??2002) ??2003) ??2004) ??2005) ??2006) ??2007) ??2008) ??2009) ??2010) ??2011) ??2012) ??2013) ??2014) ??2015). The main challenges for Jordanian government are determining the best practices in dealing with the high demand; for housing that can fit their own policy of providing suitable housing that meet every form, and shape of household incomes in the society. The housing market since 2000 has witnessed un presented increase in demand with numbers of housing units. The main and major reasons for the housing and residential higher demand were; the

high demographic and population growth of over than 75 to 80% on one hand, and on the other the migration of 155 huge numbers of first wave of Iraqis, as result of the 2ed gulf war and American invasion on Iraq in 2003, and now 156 with 2ed wave of Syrian refugees migrating also on huge numbers, due to the Syrian crisis. In addition to a huge 157 number of Egyptian workers are already been here, before the influxes of Iraqis and Syrian refugees. The total 158 influxes of people migrating to Jordan has reached a number of more than three millions, and its taking a toe 159 on the Jordanian economy. Those reasons have driven prices of lands, houses, apartments, and all the suitable 160 flats and dwellings to a very high and expensive prices. As results of this high demand on housing obviously 161 have increased the demand also on the other related industries of real-estate in general, construction projects 162 and construction materials; and thus have risen also the costs and prices of all the 163

¹⁶⁴ 14 Global Journal of Management and Business Research

Volume XVII Issue VI Version I Year () A circulation and flow of related, as well as, unrelated businesses. Those high and expensive price as impact of higher demand have also cause a higher rate of inflation, of which had been added to other economic problems of low-income average, and high rate of unemployment that came, as result of competitive foreigner expats from Egyptian and Syrian workers. Now it became very hard for poor, low, limited, and middle Jordanian household income to buy, finance, or even rent a suitable place to live in Jordan (Alnsour, 2015).

¹⁷¹ 15 c) Jordanian government effort in the housing market

Real estate and construction considered to be among the highest contributors to Jordanian economic growth, 172 173 of which the residential and housing segment market consist of over than 70% of them according to a study, by 174 Alnsour (2015). The study has also stated that Jordanian government has increased, and extended credit facilities by licensed banks for construction economic activities. They have increased from 11% in 2001 to more than 17%175 in 2008. The main reason for extending credit facilities by government, through central bank of Jordan CBJto 176 commercial banks, in order to be more competitive, and involve in the housing market by allowing them to offer 177 attractive mortgage packages, with lower interest rates, and longer payment schedules. The CBJ has decreased 178 interest rates for commercial banks from 10% in 2003 to 8 and sometime 7% of mortgages and residential loans 179 for extended period of 20 years according to another study of AL-Hmoud, et al. ??2009). The study also stated 180 that Jordanian government, in order to improve the housing mortgage market have partner, and cooperated 181 with the International Bank for; reconstruction and development of the establishment of Jordanian Mortgage 182 Refinance Company JMRC, as a public shareholding in 1996 for the purpose of providing medium, and long term 183 financing allowing the commercial banks to penetrate more strongly into the housing market; and make it more 184 affordable for poor, low, and limited household incomes. In addition the government has launched a housing 185 program through its agency of Housing and Urban Development Company HUDC in 2008; in the name of 'A 186 Decent Home for A Decent Living' that seeks to build more than 100.000 homes that fit poor, low, and limited 187 income Jordanian citizens cross the country. Alnsour (2015) stated also that government effort in amended the 188 investment promotion law; in 2001 to encourage foreign direct investment (FDI) especially for housing segment, 189 through tax exemptions and easier licensing and registration of businesses. But with all the government and 190 CBJ effort and incentives for the privet sector, and commercial banks to be involve still cannot keep up with 191 higher residential and housing market demands on one hand; and on the other cannot control the souring prices 192 and expensive costs. Alnsour (2015) shows a souring increased prices of residential lands, constructions, and 193 building material of more than 45% in the last ten years. Having and owning a place to live is a dream for most 194 of the Jordanian now that cannot be, and is very hard to accomplish now days. It seems that all the effort to 195 buy, or finance the houses, apartments, flats, and dwellings have been designed only for high income households. 196 According to many researchers and studies Jordan considered one of the most, and top expensive countries in the 197 region of the Middle-East, as well as, internationally with high rates of unemployment, inflation, and frequent 198 problems of deficits. Poor, low, and limited household's income with an increasing family size constitutes the 199 majority of the population, of which their basic need of housing hasn't been met, as a result of rapid growth of 200 housing prices compared with low income growth in the country. 201

²⁰² 16 d) Housing market limitations and finance in Jordan

The increased demand of housing that led to the souring prices and costs, as result of increased demographic 203 factors of migration by Egyptian workforce, Iraqis refugees in 2003, and especially the continuous migration of 204 205 Syrian refugees until now; considered to be the biggest obstacles that face Jordanian housing market. Nevertheless 206 there has been other factors at play; to limit the housing market such as, low income growth, social and cultural 207 values, and finance. Average income in Jordan is so ridiculous compared with the average cost of living, therefore 208 government have to work in balancing such predicament, in every way possible. In addition free supply and demand market is favourable to be in developed countries, but in developing countries such as, Jordan with 209 limited resources, and reliance on others by importing its goods, and services; with limited effective production 210 industries is a totally different story. What is happing here in Jordan; has nothing to do with free housing and 211 residential market; it is becoming more of a crazy out of control housing market. Social and cultural values that 212 limit lots of Jordanian to accept different kind of Jobs in different type of sectors is influencing the influxes, and 213

increasing the loads of foreigner work-force. Cooperation between the privet and public sectors hasn't reached 214 ideal situation, because of the old fashion ways of doing things, a higher charges and fees with 'Wastaa' abusing 215 the system, and increased the sickness of bureaucracy, on the part of government on one hand, and on the other 216 217 the out of control, in terms of prices and costs, and unorganized privet sectors especially the housing market is, 218 increasing day by day. Abusing the system of free market, by greedy traders and investors, of all kinds and types of Allah-fearless conscious people seems the norm now days in Amman-Jordan. Taking advantage of the normal 219 people and their needs. Poor, low, limited, and even middle income Jordanian have no place in Jordan; especially 220 in the big cities such, Amman, Irbid, and Zarqa. Banking and real estate financing of residential market will be 221 next in this study, but briefly banking has developed a lot, since 2000 until now with longer terms mortgage loans, 222 and less interest rates, despite the effort that has been made by the government and CBJ in reducing the interest 223 rates and establishing JMRC that allowed, and facilitate commercial banks to give attractive mortgage packages 224 for both construction investors, and personal residential loans for individuals, but those loans are not adequate 225 to finance buying a house for limited and middle incomes on one hand, and on the other hand the annual average 226 interest rates even with the reduction that has been made it does not fit the limited and middle income Jordanian 227 with monthly payments that leave almost nothing to live on for the average Jordanian family size. Next will 228 examine the role of Jordanian commercial banks for both construction and individuals' mortgages statistically to 229 230 improve that those type of loans and its interest rates are adequate only for high income households that consist 231 of small percentages of the society; and leave the majority of Jordanian needs of housing not answered and met 232 with inadequate financial resources, of which those Jordanian are in a serious need of help for alternative ways 233 of financing.

²³⁴ 17 a) Credit facilities

235 Commercial-Banks in Jordan have developed a lot since the year of 2000. According to CBJ website, (2016) 236 CBJ has extended the credit facilities through its commercial banks, of which one of its major extended credit facilities, according to economic activity is the construction sector. This sector is a part of Jordanian real-estate 237 238 market. The statistic correlation factor with commercial banks is a positive one. In other words the more credit has been facilitated to construction sector the more of positive impact would be in real-estate. Nevertheless 239 most of the real-estate in Jordan are residential and housing projects. Therefore the positive increased of credit 240 increased towards; construction sector indicates that would be more of housing projects, and thus would be 241 more residential units are being build. Now the statistical method that is required to measure the extended 242 and increased credit facilities, to construction sector for the period of (2000-2015) is a simple statistical table of 243 244 credit facilities, according to construction economic activity for the period, as in table two (CBJ.gov.jo, 2016). 245 Then I have applied the descriptive statistical method of a simple calculation of dividing the mount of credit 246 facilitated to the sector of construction in year 2000 over the a mount of credit been facilitated in year 2015 than multiplying them by one hundred, in order to find out the either increased or decreased percentage and ratio. The 247 248 sample statistical mathematical equation is Ratio of increased, or decreased construction credit facilitated = (the 249 amount of year 2000 \div the amount of year 2015) \times 100 = Fifteen percentage increased ratio for construction credit facilitate amount; for the period of ??2000) ??2001) ??2002) ??2003) ??2004) ??2005) ??2006) ??2007) ??2008) 250 ??2009) ??2010) ??2011) ??2012) ??2013) ??2014) ??2015) would indicate a positive and more residential units 251 are being build, in order to meet the higher demand for housing. In turns that would also indicate a positive role 252 for commercial banks in the housing market. According to a study had been done by HUDC for the period of 253 254 (2005-2012) stated that the contribution of commercial banks, towards Housing loans to individuals was about 255 36.5% out of the total credit facilities. If this percentage of 36.5% accounted for a base of the housing loans for the period of ??2005) ??2006) ??2007) ??2008) ??2009) ??2010) ??2011) ??2012) to individuals; all we need to 256 measure, and evaluate the role of financing the housing market, by commercial banks is a table of total credit 257 facilitation for each year of the period, than multiplying the base percentage by each year of the total credit: 258 Total credit for each year of the period \times 36.5% = the amount of total housing loans contribution by commercial 259 banks to individuals to finance their housing needs. Now from the CBJ Data website we can get the whole 260 table of the total credit for the period of (2000-2015) as in table three. V. Jordanian Commercial Banks Role in 261 Financing Theorem Market for the Period of (2000-215) Now applying the statistical equation of multiplying 262 each year of the total credit by the base % of 36.5 for the period of (2005-2012) as follow in table four: It's 263 obvious from table four that there is a positive increased in the total commercial banks loans for the period of 264 265 (2005-2012) and if we go further and calculate the increase of housing loans by dividing $(28266695 \div 65078770)$ 266 \times 100 = 43% increased of the total housing market loans for individuals from year 2005 to 2012. This off-course 267 would indicate a very positive role on the behalf of commercial banks in financing the housing market, but the 268 questions here are those credit facilities for both sectors of construction, and individual hosing financing adequate enough, to meet the higher demand in the housing and residential market? And Have those positive indications 269 of the increasing and extending credit facilities on the behalf of CBJ through commercial banks for the period 270 (2000-2015) towards both sectors played a positive role in assisting, helping and designing those loans to fit the 271 poor, low, limited, and middle income of Jordanian households' in likes, or as for the high income individuals' of 272 affordability of financing suitable housing? 273

²⁷⁴ 18 b) Addressing the first question

According to the previous descriptive statistical method of percentile both the credit loans for constructions and 275 housing market for the period of (2000-2015) came up positive to the role of commercial banks in financing both 276 interrelated sectors to meet the higher demand for residential housing units. But to examine if the commercial 277 banks were providing adequate financing to meet the higher demand first it required to know two major housing 278 averages factors. First how many dwellings required to meet the demand, and what it has been permitted, by the 279 government? What is the average price of averaged welling unit in Jordan? According to annually book for 2013 280 of HUDC website the average price, and not cost for an average dwelling is about 40000 JD, and the average 281 annual dwelling permitted, to build is about 30000 units. It's worth noting that the demand for dwellings' are 282 higher than 30000. Any how a simple calculation by multiplying 40000 JD \times 30000 Units = 1200000000 million 283 JD, which is about abillion and two hundred million JD. The commercial banks loans for housing market is 284 worth 65078770 out of the total credit of year 2012, as sample of the highest offered loans for individuals to 285 finance their housing units; now a simple percentile statistical calculation of dividing: $(65078770 \div 120000000)$ 286 \times 100= 5.4% that means the total housing loans that been offered by commercial banks to finance the housing 287 market is about 5.4% of the total average of residential units prices. Now we will do the same thing to the 288 construction sector by dividing the sample construction credit of 2015, by the total amounts of the prices of 289 total housing units demanded built: $(49045000 \div 120000000) \times 100 = 4.09\%$ that means the banks loans that 290 directed towards financing construction investors and projects are about 4.09% out of the total prices of the 291 total demanded residential units. The results for both sectors indicate a big gap, between what been offered by 292 commercial banks, in term of credit facilitations and loans; and what been the averaged requirements, in order to 293 meet the minimum demand of housing unit in the construction and housing market. Therefore those figures, and 294 percentiles indicate that the role of commercial banks in financing both sectors are inadequate, and ineffective in 295 the face of meeting the higher demand of those markets in all levels. 296

²⁹⁷ 19 c) Addressing the second question

To address and answer the 2ed question three major themes, and attributes of factors have to be known, or 298 acknowledged. First important attributes is the interest rates on those loans, therefore going back to CBJ 299 website to get the data for interest rates of the period of ??2000) ??2001) ??2002) ??2003) ??2004) ??2005) 300 ??2006) ??2007) ??2008) ??2009) ??2010) ??2011) ??2012) ??2013) ??2014) ??2015) as showing in table five: 301 As we can observe from the statistical table five that CBJ has reduced interest rates, over the years of the period 302 quit significantly from high interest rate of 11.38% in year 2000 to a low of 7.59% in 2004. Then claimed back 303 up again, and start to fluctuate between high of 9.48% in year 2008 and low of 8.1% in 2005 for the period 304 305 after. Nevertheless the required interest rate is The average of the period of (2000-2015) therefore the suitable 306 statistical method here is the descriptive measure of location of finding the sample 'Mean' which is defined as 307 adding together all the numbers of the data at hand, in table five then the total of the added data is divided by the numbers of the data items, the statistical equation is: $?? = ??1 + ??2 + ? + ???? \div ??$. 308

All the interest rates in table 5 been added together and they equal 145. The mean, or average interest rate for the period = $145 \div 16 = 9.06\%$. The 2ed and 3ed attributes are the average dwelling price of which its known before from HUDC website of the latest yearly book of 2013; and the average Jordanian annually household income, of which is known also before from table one, in the study that have been produced from information from Jordanian department of statistics website. Now all we have to do is some simple statistical calculations but first organize the info:

The average annual income = 7000 JD. The cost of average dwelling unit = 40000 JD. The average annual 315 interest rate for the period = 9.06%. Now the average income is 7000JD a year. Therefor divide 7000 $\div 12 =$ 316 583.33 JD is the monthly average income for Jordanian. Do you see the predicament?! No wonder that the 317 average household income in Jordan is so ridiculous compare to the cost of living especially in Amman! Thanks 318 Allah on all terms of good and bad conditions. Getting back to the source of HUDC the latest study of annually 319 book of 2013 stated that the adequate annual interest rate has to 6.8%, and the adequate monthly payments 320 must be third of the average monthly income; that means about 33% of the average monthly income. We'll 321 examine the statistical percentile of the mortgage monthly payments by dividing it on the monthly income then 322 multiply it by one hundred: 323

 $(468.67 \text{JD} \div 583.33) \times 100 = 80.3\%$. The results clearly shows that those housing loans and increased credit 324 facilities to individuals has nothing to do with real harsh reality on the ground of the housing market in Jordan on 325 one hand, on the other those housing loans do not help, or assist neither the low and limited income households, 326 327 or even the middle income households. It is safe to say that those loans are strictly design for high income 328 individuals that can offered an average payment of 469JD give or take depend on the average interest rate. 329 Middle incomes Jordanian can't offered to spend 80% of their monthly income even on necessary and important social need, such as housing. This kind of percentage will leave almost nothing to satisfy the other basic needs 330 of food, clothes, and transportation for one individual let alone for the whole family to stay alive in Jordan. 331 Affordable housing in Jordan with those souring and accelerating speed of high prices of almost everything in 332 Jordan; especially the price of residential lands that is the fundamental components of the housing market, of 333 over then 40 to 45% and more, due to a very high and large demand of residential housing have made it almost 334

impossible for an average income Jordanians and their families; in addition to others even todream of owning a small place to live.

337 20 VI. Recommendations

Government intervention: leaving the construction and hosing markets to free market and supply and demand
 is a good thing in control environment with controllable legislation laws, rules, and regulation such as, the
 developed countries. Those controllable issues will limit corruptions, bribes, and embezzlements in the free
 market society.

Nevertheless what is happing in the housing market and others, as well in Jordan in regards to the over the top 342 prices of everything, and especially in the real-estate industry in all fronts of higher residential lands, dwelling, 343 and higher construction cost of materials, is not just because of higher demand in the housing market; but also 344 in developing country like Jordan there are lots of corruptions, bribes, and embezzlements in just about every 345 industry, sector, and public and privet agencies and companies, as result of low income, uneven social justice, 346 poverty, and lots of wrong and shortcoming of habits, traditions, and social and cultural mischiefs that had 347 been accumulated over the years. The free market of supply and demand in housing market is best described 348 as out of control market. Therefore immediate government intervention is needed, not to set up rules, laws, and 349 regulations; but also to control and reduces those ridiculous higher prices of lands and costs on one hand, and 350 on the other to work hard in increasing the averages of those types of ridiculous low incomes. 2. Encouraging 351 innovation in creating other alternatives and ways of financing that have nothing to do with interest, such as 352 innovating secondary markets of stocks and bonds, in which the transactions of this secondary real-estate market 353 of buying and selling those bonds and stocks would be; by, or through the 'Marabahh' and other Islamic tools. 354 Therefore Islamic banking has to be encourage more to get involve in the industry, and innovating more tools 355 and ways of Islamic financing. After all we are in the society of the over-whelming majority of Muslims; and our 356 faith and Allah tell us to work, build, and be effective in any society and country that we live and operate at. 357 And that's what constitutes the meaning of good citizen.

one

(EL-Quqa, et al., 2008).	
General Microeconomic of Jordan indicators for (2016)	
Indicators	2016
Population	$9,\!683,\!793~{ m m}$
Average income	7000 JOD
Inflation rate	0.8%
Unemployment rate	14.8%
GDP	2.6%
Source: Jordanian Department of statistics	

Figure 1: table one

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²Management and Finance of Jordanian Housing Market (2000)(2001)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2003)(2010)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2010)(2010)(2010)(2010)(2010)(2010)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(200

 $^{{}^{4}}$ © 2017 Global Journals Inc. (US) 1Management and Finance of Jordanian Housing Market(2000)(2001)(2002)(2003)(2004)(2005)(2006)(2007)(2008)(2009)(2010)(2011)(2012)(2013)(2014)(2015)(2016)

Year	Month	Construction (million JD)
2000	12	744.9
2001	12	728.9
2002	12	764.9
2003	12	804.5
2004	12	953.2
2005	12	1162.1
2006	12	1560.8
2007	12	1942.1
2008	12	2293.1
2009	12	2582.5
2010	12	3167.7
2011	12	3463.6
2012	12	3682.6
2013	12	4086.4
2014	12	4552.8
2015	12	4904.5
		Source: CBJ

Now we can calculate according to the equation: Ratio = $(7449000 \div 49045000) \times 100$

Ratio = 15% increased of construction credit facilities from year to 2000 to 2015.

Figure 2: Table 2 :

3

Year	Month	Total (million JD)
2000	12	4546.5
2001	12	4948.9
2002	12	5130.
2003	12	5262.4
2004	12	6189.2
2005	12	7744.3
2006	12	9761.9
2007	12	11295.6
2008	12	13044.3
2009	12	13317.2
2010	12	14451.4
2011	12	15851.2
2012	12	17829.8
2013	12	18939.7
2014	12	19274.5
2015	12	21103.5
		Source: CBJ website

Figure 3: Table 3 :

 $\mathbf{2}$

Year	Total credit in million	Base $\%$ of 36.5	Total housing loans
2005	77443000	36.5%	28266695
2006	97619000	36.5%	35630935
2007	112956000	36.5%	41228940
2008	130443000	36.5%	47611695
2009	133172000	36.5%	48607780
2010	144514000	36.5%	52747610
2011	158512000	36.5%	57856880
2012	178298000	36.5%	65078770

Figure 4: Table 4 :

 $\mathbf{5}$

Year	Month	Weighted Average Interest Rates on Loans and
2000	10	Advances
2000	12	11.38%
2001	12	10.45%
2002	12	9.85%
2003	12	8.92%
2004	12	7.59%
2005	12	8.1%
2006	12	8.56%
2007	12	8.86%
2008	12	9.48%
2009	12	9.07%
2010	12	9.01%
2011	12	8.67%
2012	12	8.95%
2013	12	9.03%
2014	12	8.84%
2015	12	8.24%
		Source: CBJ website

Figure 5: Table 5 :

 $\mathbf{4}$

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