



# Social Development Bank

---

## Introduction

---

The objective of this project is to measure the awareness of citizens in preparing for the costs of marriage, using the data of the Social Development Bank, and to know the amounts of funding that were taken to finance the marriage

---



	City	category	service_or_product	sector	amount_of_funding	amount_of_payment	date_of_payment	gender	age	social_status	special_needs	family_members	program_zood	income
0	Jizan	business_funding	startups	NaN	90000.0	< 1000	6	male	< 30	unmarried	no	< 02	no	< 5000
1	Ha'il	personal_funding	marriage	government_employee	60000.0	>= 1000	2	male	>= 30	married	no	>= 02	no	>= 7500
2	Taif	personal_funding	marriage	NaN	42000.0	< 1000	3	male	>= 30	married	no	>= 10	no	< 5000
3	Madina	personal_funding	marriage	NaN	42000.0	< 1000	3	male	< 30	married	no	>= 02	yes	< 5000
4	Taif	personal_funding	marriage	NaN	42000.0	< 1000	1	male	< 30	married	no	>= 02	no	< 5000

We have 146405 rows and 14 columns

# Data Structure

# Data Cleaning

Delete month 1,2 from 2021

```
df.drop(df[df['date_of_payment'] == '2021/01'].index, inplace = True)  
df.drop(df[df['date of payment'] == '2021/02'].index, inplace = True)
```

Delete null values from age ,  
Social status

```
df.dropna(subset=[ 'age','social_status'], inplace=True)
```

Keep empty values from  
sector because it's important

```
sector      74456
```

Size of data after cleaning

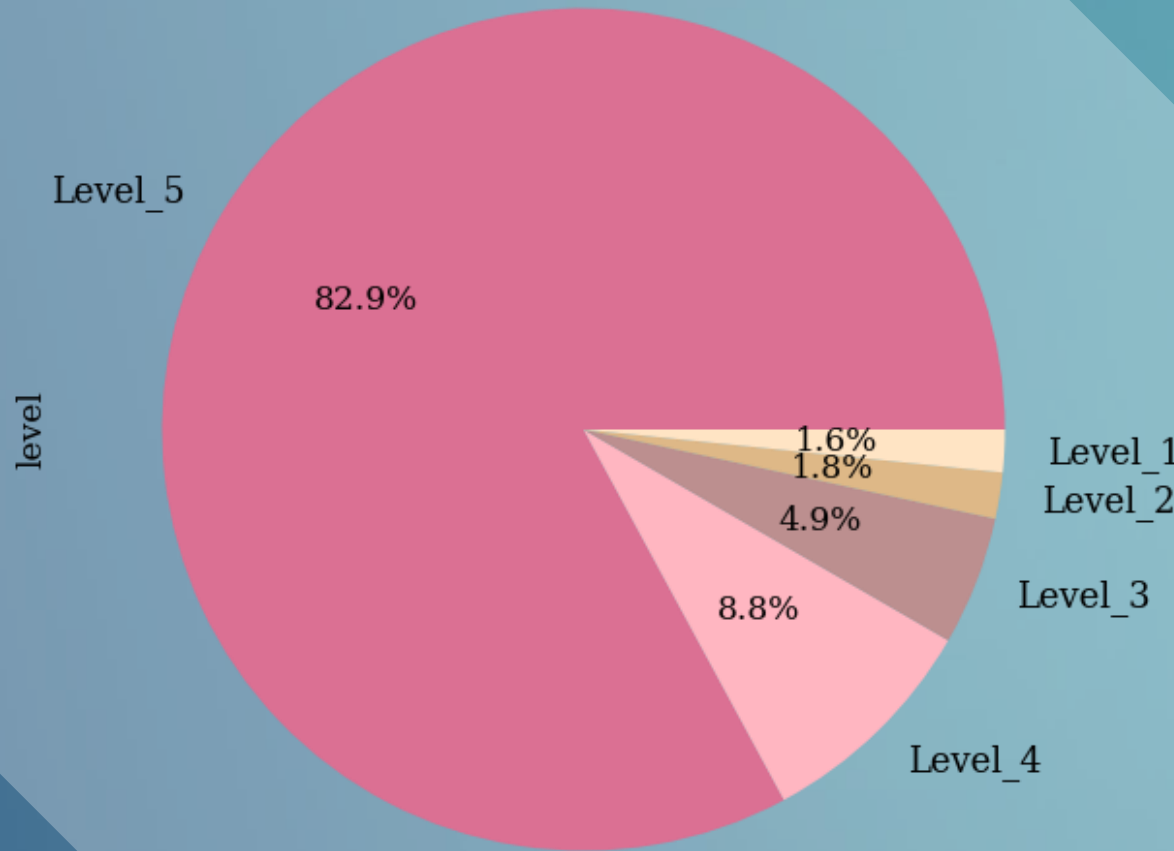
```
(142497, 14)
```

	City	category	service_or_product	sector	amount_of_funding	amount_of_payment	date_of_payment	gender	age	social_status	special_needs	family_members	program_zood	income	level	
1	Ha'il	personal_funding	marriage	government_employee	60000.0	>= 1000		2	male	>= 30	married	no	>= 02	no	>= 7500	Level_5
2	Taif	personal_funding	marriage	NaN	42000.0	< 1000		3	male	>= 30	married	no	>= 10	no	< 5000	Level_4
3	Madina	personal_funding	marriage	NaN	42000.0	< 1000		3	male	< 31	married	no	>= 02	yes	< 5000	Level_4
4	Taif	personal_funding	marriage	NaN	42000.0	< 1000		1	male	< 31	married	no	>= 02	no	< 5000	Level_4
5	Madina	personal_funding	marriage	NaN	42000.0	< 1000		3	male	< 31	married	no	>= 02	yes	>= 5000	Level_4

After cleaning, We selected a sample of 34753 rows and 14 columns and last one - 15 - 'level' is the result Y

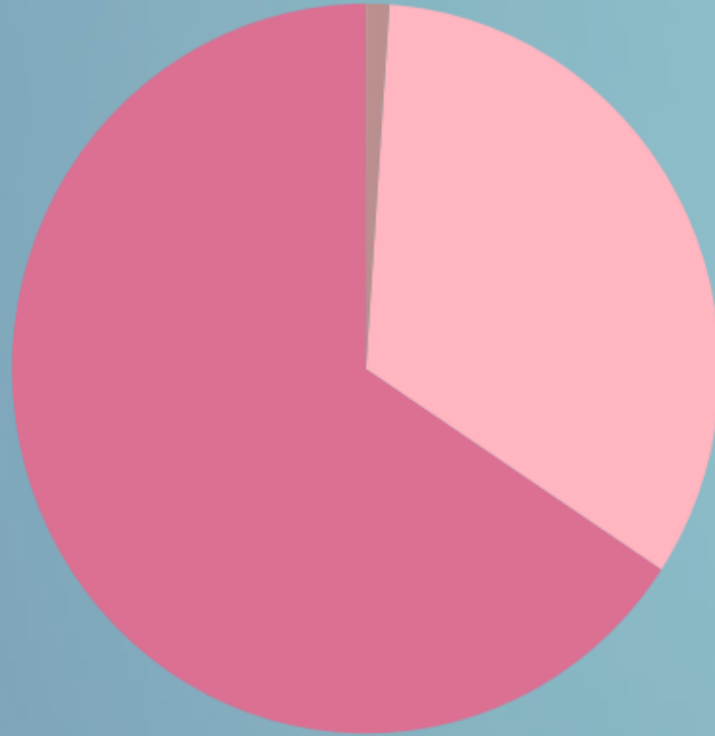
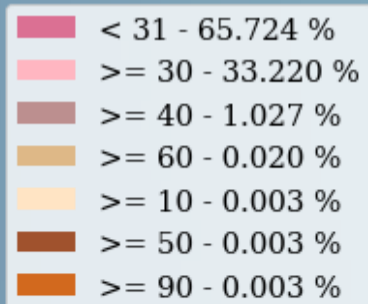
# Data Analysis

## View the financing ratios for marriage



based on the level of funding :

Level 5 50000-60000 level 4 40000-49999 level 3 30000-39999 level 2 20000-29999 level 1 is less than 20000

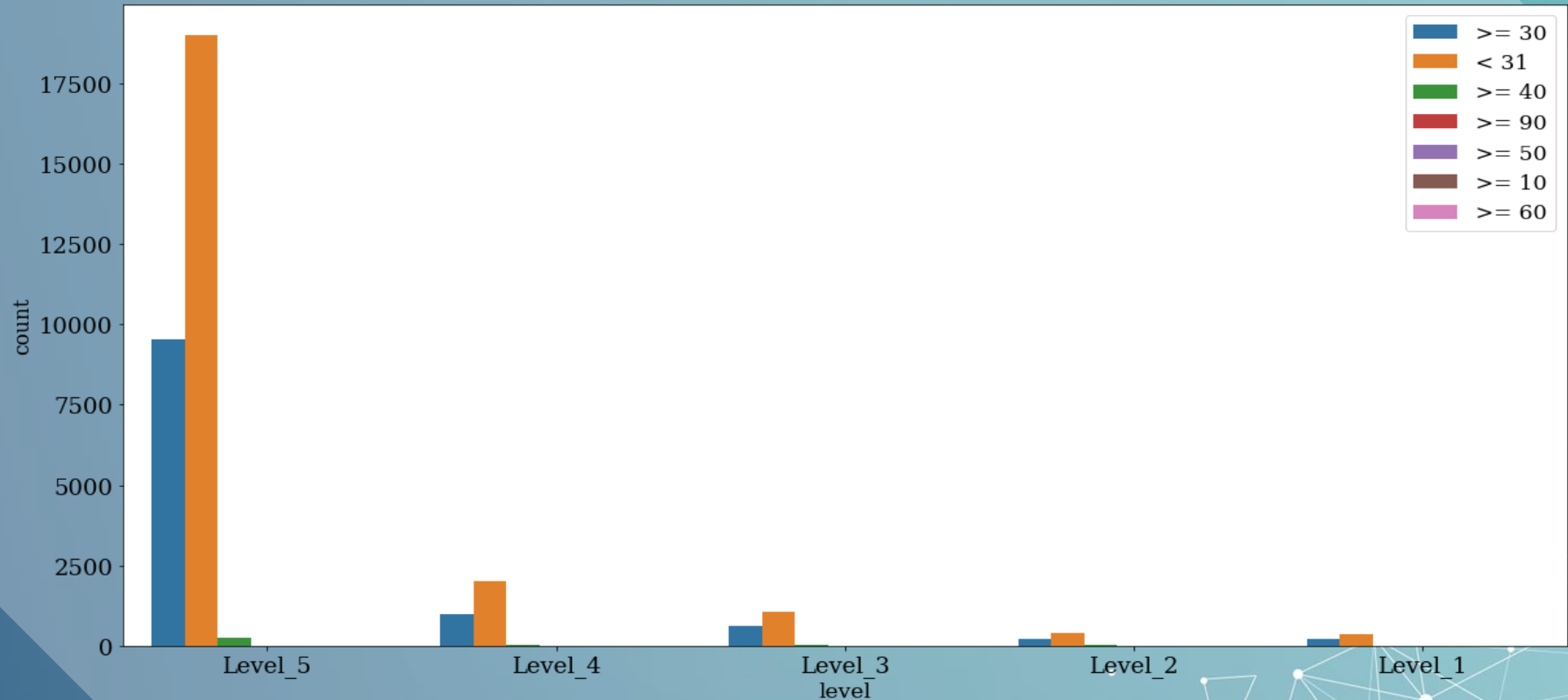


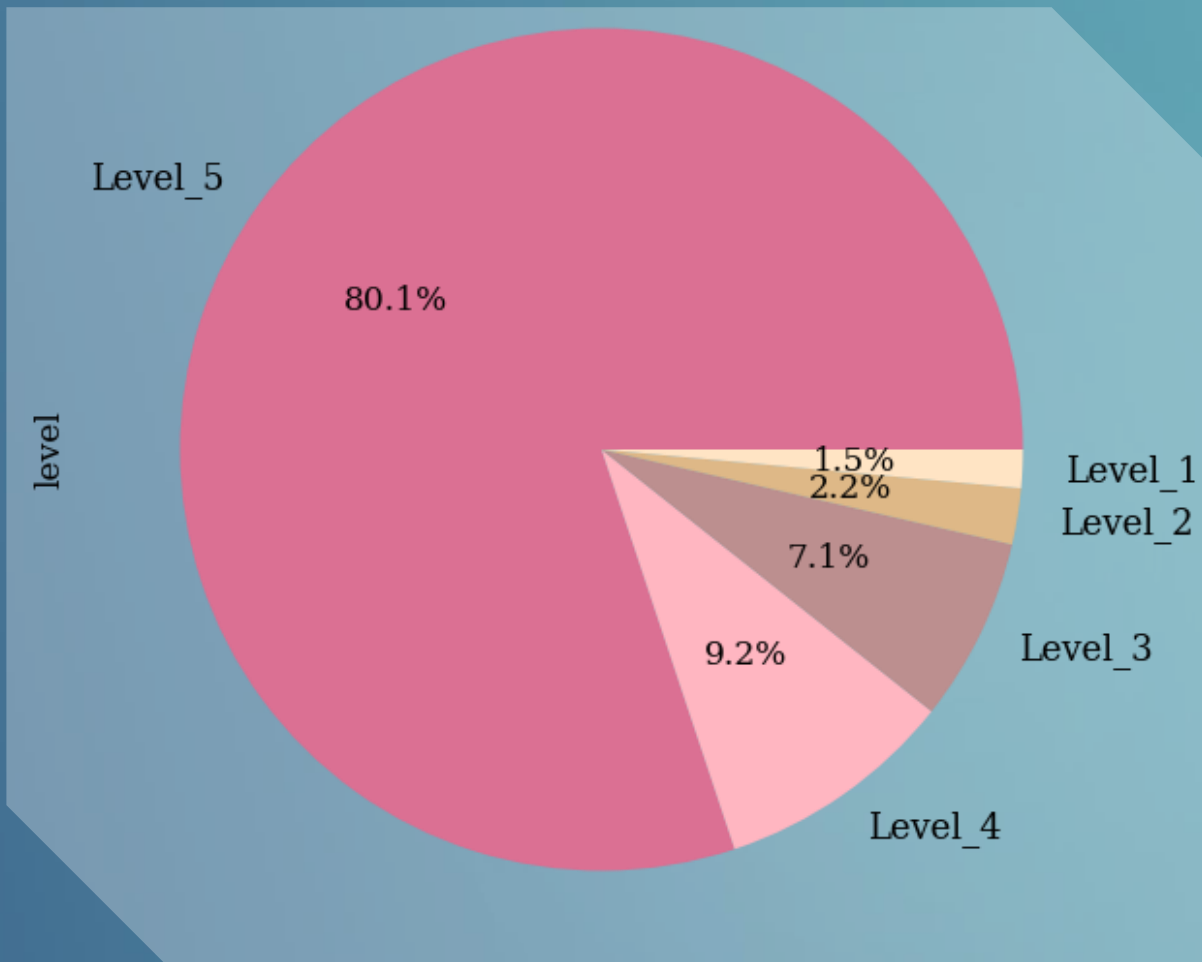
## Calculating the age ratio

to citizens requesting marriage  
financing



# Calculating the age ratio to citizens requesting marriage financing



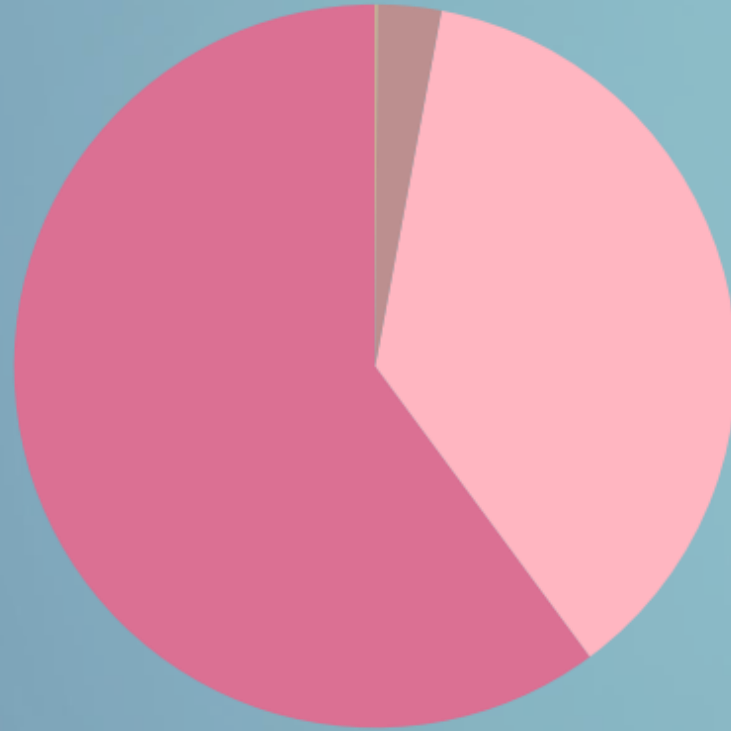
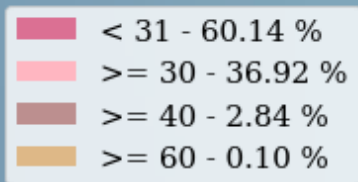


## View the financing ratios for marriage

For people with special needs  
We notice that the percentages are similar to the percentage of other citizens







## Calculating the age ratio

to Special needs requesting  
marriage financing



# Conclusion

---

Most applicants for marriage financing ask for a maximum of 60,000 but at the same time, this does not mean that citizens do not have awareness of managing marriage costs , because the General Authority for Statistics clarified that the number of marriage contracts is 150 thousand contracts, while the number of citizens who requested marriage financing 34,753 requests , It also turned out that There are people over the age of 60 who have applied for marriage financing, and this is a problem that everyone should help to solve.

## Future work

---

Working to find solutions that increase awareness among citizens, such as holding workshops and courses that increase awareness .