

Loading Data Using SQL: Final Task 3.7

Tasks:

1. Prepare the dataset for the analysis by creating a new table selecting the records where the market is financial services. Keep in mind that the values in this column are misspelled

Answer: I first imported the CSV File to PG Admin using the SQL statement. Creating the table called ***investment***

```
CREATE TABLE IF NOT EXISTS investment
(
    market character varying,
    funding_total_usd numeric,
    status character varying,
    country_code character varying,
    founded_year character varying,
    seed numeric,
    venture numeric,
    equity_crowdfunding numeric,
    undisclosed numeric,
    convertible_note numeric,
    debt_fincing numeric,
    private_equity numeric
)
```

Then I created another table: "***investment_clean***" removing all the null values using an inner join from the imported table "investment" from the original CSV file dataset using the following SQL Statement.

```
CREATE TABLE investment_clean AS
SELECT i.market, i.funding_total_usd, i.status, i.country_code, i.founded_year, i.seed, i.venture,
i.equity_crowdfunding, i.undisclosed, i.convertible_note, i.debt_fincing, i.private_equity
FROM investment AS i
INNER JOIN (
SELECT market, funding_total_usd, status, country_code, founded_year, seed, venture,
equity_crowdfunding, undisclosed, convertible_note, debt_fincing, private_equity
FROM investment
WHERE market IS NOT NULL AND funding_total_usd IS NOT NULL AND status IS NOT NULL AND
country_code IS NOT NULL AND founded_year IS NOT NULL AND seed IS NOT NULL AND venture IS NOT
NULL AND equity_crowdfunding IS NOT NULL AND undisclosed IS NOT NULL AND convertible_note IS
NOT NULL AND debt_fincing IS NOT NULL AND private_equity IS NOT NULL
) AS valid_data
ON i.market = valid_data.market
AND i.funding_total_usd = valid_data.funding_total_usd
AND i.status = valid_data.status
```

Then prepare the dataset for analysis by creating a new table selecting the records where the market is financial services. Keep in mind that the values in this column are misspelled.

```
CREATE TABLE investment_financialservices AS
SELECT * FROM investment_clean
WHERE market = 'FincialServices'
```

	market character varying	funding_total_usd numeric	status character varying	country_code character varying	founded_year character varying	seed numeric	venture numeric	equity_crow numeric
1	FincialServices	7500	operating	USA	2013	7500	0	
2	FincialServices	40704	operating	USA	2012	40704	0	
3	FincialServices	41250	operating	HKG	2013	41250	0	
4	FincialServices	50000	closed	USA	2009	50000	0	
5	FincialServices	100000	operating	USA	2010	100000	0	
6	FincialServices	148323	operating	FRA	2010	148323	0	
7	FincialServices	150000	operating	USA	2013	150000	0	
8	FincialServices	150000	operating	USA	2013	150000	0	
9	FincialServices	150000	operating	USA	2013	150000	0	
10	FincialServices	150000	operating	USA	2013	150000	0	
11	FincialServices	150000	operating	USA	2013	150000	0	
12	FincialServices	150000	operating	USA	2013	150000	0	
13	FincialServices	150000	operating	USA	2013	150000	0	
14	FincialServices	150000	operating	USA	2013	150000	0	
15	FincialServices	150000	operating	USA	2013	150000	0	
16	FincialServices	172801	operating	DEU	2013	172801	0	
17	FincialServices	183352	closed	GBR	2005	183352	0	

2. Provide descriptive analytics that presents the number of observations of companies operating in financial services and their average, minimum, and maximum seed funding.

ANSWER:

```
SELECT AVG(seed) AS average_seed, MIN(seed) AS minimum_seed,  
MAX(seed) AS maximum_seed  
FROM investment_financialservices;
```

Query	Query History	Data Output	Messages	Notifications	Scratch Pad
1	SELECT AVG(seed) AS average_seed,				
2	MIN(seed) AS minimum_seed,				
3	MAX(seed) AS maximum_seed				
4	FROM investment_financialservices;				
5					

	average_seed numeric	minimum_seed numeric	maximum_seed numeric
1	576521.637681159420	0	4400000

3. T. Aware of the reality that equity crowdfunding is a bit rare in financial services, determine whether or not there has been a previous instance where a startup offering financial services received equity crowdfunding. If there was, provide details of the company, such as the country it operates in, the year it was founded, its status (whether or not it is still operating), and the amount of equity crowdfunding it acquired.

ANSWER:

market	funding_total_usd	status	country_code	founded_year	seed	venture	equity_crowdfunding	undisclosed	convertible_note	debt_fincing	private_equity
character varying	numeric	character varying	character varying	character varying	numeric	numeric	numeric	numeric	numeric	numeric	numeric
1	FincialServices	398097	operating	FRA	2010	0	0	398097	0	0	0

4. **T:** Determine whether or not a significant outlier in terms of total funding (USD) exists among companies that offer financial services. [SEP] An outlier is an extremely high or low value. Provide details about this outlier, [SEP] such as its country, status, year founded, and total funding (USD).

Answer:

```
SELECT * FROM investment_financialservices
WHERE funding_total_usd = 7500;
```

Data Output Messages Notifications Scratch Pad X

	market character varying	funding_total_usd numeric	status character varying	country_code character varying	founded_year character varying	seed numeric	venture numeric	equity_crowdfunding numeric	undisclosed numeric	convertible_note numeric	debt_fincing numeric	private_equity numeric
1	FincialServices	7500	operating	USA	2013	7500	0	0	0	0	0	0

5. Excluding the significant outlier, provide insights on the company regarding the usual financing sources for businesses that offer financial services. Export your data from SQL to MS Excel, and create a data visualization that presents the average funds acquired from financing sources such as equity crowd-sourcing, undisclosed sources, convertible notes, debt financing, [SEP] and private equity.

ANSWER:

Below is the link to the Excel File I exported from SQL.

I create a data visualization on the Excel File.

Link Here: [investment_financialservices](#)

I hope I could be provided a mentor who will guide me in answering all the tasks in this activity and to better create the visualizations required for this problem.