

# **TEAM DATAWIZ**

## **Team - 43**

#### Playstore Apps Analysis & Visualization

#### **SOLUTION: MODULE 1**

1. Which apps have the highest rating in the given available dataset?

#### Answer:

SELECT DISTINCT App,
Rating
FROM my\_new\_work.lets\_see
WHERE Rating >= 5.0;

**2.** What are the number of installs and reviews for the above apps? Return the apps with the highest reviews to the top.

### Answer:

SELECT DISTINCT App,
Installs,
Reviews
FROM my\_new\_work.lets\_see
WHERE Rating >= 5.0
ORDER BY Reviews desc;

**3.** Which app has the highest number of reviews? Also, mention the number of reviews and category of the app

#### Answer:

App	Category	Reviews
Facebook	SOCIAL	78158306

SELECT DISTINCT App,
Category,
Reviews
FROM my\_new\_work.lets\_see
ORDER BY Reviews desc
LIMIT 1;

**4.** What is the total amount of revenue generated by the google play store by hosting apps? (Whenever a user buys apps from the google play store, the amount is considered in the revenue)

<u>Answer</u>: Revenue = \$,387,553,792

SELECT SUM(Price\*Installs) as total\_rev FROM my\_new\_work.lets\_see WHERE Price != 0 AND Type = 'Paid';

**5.** Which Category of google play store apps has the highest number of installs? also, find out the total number of installs for that particular category.

<u>Answer</u>: Category = GAME Install = 35086024415

SELECT DISTINCT Category, SUM(Installs) OVER(PARTITION BY Category) AS high\_cat\_install FROM my\_new\_work.lets\_see

ORDER BY high\_cat\_install DESC;

6. Which Genre has the most number of published apps?

Answer: Tools (842)

**SELECT DISTINCT Genres,** 

COUNT(App) OVER(PARTITION BY Genres) AS app\_by\_genre

FROM my\_new\_work.lets\_see ORDER BY app\_by\_genre DESC;

7. Provide the list of all games ordered in such a way that the game that has the highest number of installs is displayed on the top (to avoid duplicate results, use distinct)

Answer

**SELECT** 

DISTINCT App,

Category,

Installs,

DENSE\_RANK() OVER(ORDER BY Installs DESC) AS ranking

FROM my\_new\_work.lets\_see

WHERE Category = 'GAME';

8. Provide the list of apps that can work on android version 4.0.3 and UP.

Answer:

**SELECT** 

App,

Android\_Ver

FROM my\_new\_work.lets\_see

WHERE Android\_Ver like '%4 0 3 and up%';

9. How many apps from the given data set are free? Also, provide the number of paid apps.

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Answer: Free App = 10039
Paid App = 800
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**SELECT** 

SUM(CASE WHEN Type = 'Free' THEN 1 ELSE 0 END) AS number\_of\_free, SUM(CASE WHEN Type = 'Paid' THEN 1 ELSE 0 END) AS number\_of\_paid FROM my new work.lets see; **10.** Which is the best dating app? (Best dating app is the one having the highest number of Reviews)

Answer Zoosk Dating App Meet Singles

**SELECT DISTINCT App,** 

DENSE\_RANK() OVER(ORDER BY Reviews DESC) AS ranking,

**Reviews** 

FROM my new work.lets see

WHERE Category = 'DATING'

**GROUP BY App, Category, Reviews;** 

**11.** Get the number of reviews having positive sentiment and the number of reviews having negative sentiment for the app **10 best foods for you** and compare them.

Answer: Positive Review: 162
Negative Review: 10

	Арр	pos_review	neg_review
•	10 Best Foods for You	162	10

SELECT App,

SUM(CASE WHEN Sentiment = 'Positive' THEN 1 ELSE 0 END) AS pos\_review, SUM(CASE WHEN Sentiment = 'Negative' THEN 1 ELSE 0 END) AS neg\_review

FROM my\_new\_work.interesting\_rev

WHERE App = '10 Best Foods for you';

**12.** Which comments of **ASUS SuperNote** have sentiment polarity and sentiment subjectivity both as 1?

Answer:

Translated_Review	Арр	Sentiment_Polar	Sentiment_Subjecti
Awesome	ASUS SuperNote	1	1

**SELECT Translated Review,** 

App,

Sentiment Polarity,

Sentiment\_Subjectivity

FROM my\_new\_work.lets\_review

WHERE App = 'ASUS SuperNote'

**AND Sentiment\_Polarity = 1** 

**AND Sentiment\_Subjectivity = 1**;

13. Get all the neutral sentiment reviews for the app Abs Training-Burn belly fat

Answer:

**SELECT** 

App,

Translated Review,

**Sentiment** 

FROM my new work.lets review

WHERE App = 'Abs Training Burn belly fat' AND Sentiment = 'Neutral';

Арр	Translated_Review	Sentiment
Abs Training Burn belly fat	I would recommend anyone struggling exercise alone Be encouraged g	Neutral
Abs Training Burn belly fat	I m sticking literally kicked booty pain gain	Neutral
Abs Training Burn belly fat	Needs work voice tells take break voice keeps going	Neutral
Abs Training Burn belly fat	Pop ads middle night Taking phone F app	Neutral
Abs Training Burn belly fat	I day day I saw difference I went XL medium size	Neutral

**14.** Extract all negative sentiment reviews for **Adobe Acrobat Reader** with their sentiment polarity and sentiment subjectivity <a href="#">Answer:</a>

#### **SELECT**

ROW\_NUMBER() OVER(ORDER BY App ASC) AS indx, App,

Translated\_Review, Sentiment\_Polarity,

Sentiment\_Subjectivity,

Sentiment

FROM my\_new\_work.lets\_review

WHERE App = 'Adobe Acrobat Reader' AND Sentiment = 'Negative';

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indx	App	Translated_Review	Sentiment_Polar	Sentiment_Subjecti	Sentiment
1	Adobe Acrobat Reader	Not Another Damn Cloud Account I want another blasted Cloud account	-0.3	0.7	Negative
2	Adobe Acrobat Reader	The previous versions good enough This update poor It allow highligh	-0.14444444	0.561111111	Negative
3	Adobe Acrobat Reader	Hey Pls update app I m face issues When I opened first time pdf ope	-0.0125	0.345833333	Negative
4	Adobe Acrobat Reader	Forces account password means Google knowledge me Never required	-0.275	0.566666667	Negative
5	Adobe Acrobat Reader	Not Another Damn Cloud Account   I want another blasted Cloud account	-0.3	0.7	Negative
6	Adobe Acrobat Reader	The previous versions good enough This update poor It allow highligh	-0.144444444	0.561111111	Negative
7	Adobe Acrobat Reader	Hey Pls update app I m face issues When I opened first time pdf ope	-0.0125	0.345833333	Negative
8	Adobe Acrobat Reader	Forces account password means Google knowledge me Never required	-0.275	0.566666667	Negative
9	Adobe Acrobat Reader	Forces account password means Google knowledge me Never required	-0.275	0.566666667	Negative
10	Adobe Acrobat Reader	Not Another Damn Cloud Account   I want another blasted Cloud account	-0.3	0.7	Negative
11	Adobe Acrobat Reader	The previous versions good enough This update poor It allow highligh	-0.144444444	0.561111111	Negative
12	Adobe Acrobat Reader	Hey Pls update app I m face issues When I opened first time pdf ope	-0.0125	0.345833333	Negative
13	Adobe Acrobat Reader	Too boring I m trying scan document give option scan In last two days w	-0.3	0.488888889	Negative
14	Adobe Acrobat Reader	After using adobe iphone version annoying Doesnt allow simple option pl	-0.2	0.552380952	Negative
15	Adobe Acrobat Reader	Love app Hate file manager Open file saved downloads edits copy privat	-0.075	0.59375	Negative
16	Adobe Acrobat Reader	It s difficult select text stupid pg function side screen touch screen functio	-0.575	0.9	Negative
17	Adobe Acrobat Reader	It s actually terrible The biggest flaw return automatically open file open A	-0.275	0.525	Negative
18	Adobe Acrobat Reader	Its like I using ghost it keeps scrolling pages automatically and even so	-0.275	0.95	Negative
19	Adobe Acrobat Reader	Adobe removed option saving changes pdfs locally save changes cloud	-0.0875	0.520833333	Negative
20	Adobe Acrobat Reader	If wish EXPORT give birthdate What A mobile never asks this Not inte	-0.125	0.5	Negative
21	Adobe Acrobat Reader	Does exactly PC based version Brilliant At last Window based ruined run	-0.229166667	0.438888889	Negative
22	Adobe Acrobat Reader	This sux saves cloud Unless im missing something	-0.2	0.05	Negative
23	Adobe Acrobat Reader	Stupid app Whenever I open pdf file making copy file accessible only	-0.10625	0.71875	Negative
24	Adobe Acrobat Reader	This almost everything I need pdfs unfortunately lack Chromebook intergr	-0.0625	0.558333333	Negative
25	Adobe Acrobat Reader	It good app But problem unable share photos images unable sending eve	-0.1	0.533333333	Negative
26	Adobe Acrobat Reader	Apparently I log view pdf Idiotic	-0.308333333	0.591666667	Negative
27	Adobe Acrobat Reader	Very little usefulness keep getting messages require DC Windows Mac an	-0.46484375	0.425	Negative
28	Adobe Acrobat Reader	Can t rename documents latest update Using Android 7 I ve got downloa		0.933333333	Negative

# \*Upon completing the module, please submit your ZIP files in the google form here. Guidelines for submissions are mentioned below:

- 1. A google form will be circulated for module files submissions.
- 2. For module 1 you have to submit 4 files as mentioned below:
  - 1. A Text file consisting of the solutions to each SQL requirement.
  - 2. .py file used for cleaning the dataset
  - 3. Cleaned .csv file of playstore\_apps dataset
  - 4. Cleaned .csv file of playstore\_reviews dataset

<sup>\*</sup>create a zip file of all the 4 files and then make the submission.