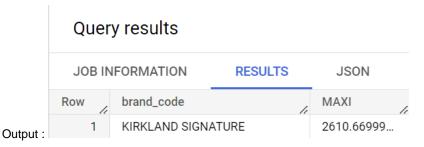**PART 2**

For this part I have used Google Cloud Platform(**GCP**) to import excel files and to write SQL Queries in BIG query,which will help to understand the data in more detail and I can perform my queries without error.

Which brand saw the most dollars spent in the month of June?

```
QUERY: WITH CTE AS(

SELECT EXTRACT(MONTH FROM MODIFY_DATE) AS MON,brand_code ,SUM(TOTAL_FINAL_PRICE) AS MA
XI FROM `vocal-terminal-280611.data_assignment.receipt_items`
WHERE BRAND_CODE IS NOT NULL
GROUP BY 1,2
)
SELECT brand_code,MAXI FROM CTE WHERE MON=6
ORDER BY MAXI DESC
#COMBINING THE YEARS AS ASSUMPTION
```

So for further questions and this questions as well I have combined the months in a single entity only even if its different year, although one can grain it at year level as well,which will will just give you different product for different year.

Output :

Query results

JOB INFORMATION	RESULTS	JSON

Row	brand_code	MAXI
1	KIRKLAND SIGNATURE	2610.66999...

Which user spent the most money in the month of August?

```
QUERY : WITH CTE AS(

SELECT USER_ID,EXTRACT(MONTH FROM DATE_SCANNED) AS MON,SUM(TOTAL_SPENT) AS TOTAL
 FROM `vocal-terminal-280611.data_assignment.receipts`
 GROUP BY 1,2
)
SELECT USER_ID,TOTAL FROM CTE
WHERE MON=8
ORDER BY TOTAL DESC
LIMIT 1
#COMBING THE YEARS AS ASSUMPTION
```

Query results

JOB INFORMATION	RESULTS	JSON

Row	USER_ID	TOTAL
1	609ab37f7a2e8f2f95ae968f	157719.27

Output :

What user bought the most expensive item?

Query: What user bought the most expensive item?

Output : `SELECT` ri.DESCRIPTION, ri.TOTAL_FINAL_PRICE,

r.USER_ID `FROM` `vocal-terminal-280611.data_assignment.receipt_items` ri
`JOIN` `vocal-terminal-280611.data_assignment.receipts` r `ON`
ri.REWARDS_RECEIPT_ID=r.ID

`ORDER BY` ri.TOTAL_FINAL_PRICE `DESC`
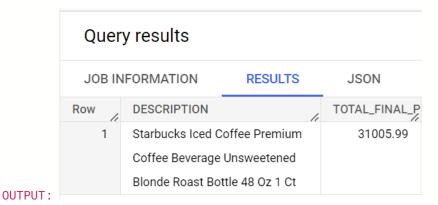#COMBINING THE YEARS AS ASSUMTION

Query results

	JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS	EXE

Row	DESCRIPTION	TOTAL_FINAL_P	USER_ID	
1	Starbucks Iced Coffee Premium Coffee Beverage Unsweetened Blonde Roast Bottle 48 Oz 1 Ct	31005.99	617376b8a9619d488190e0b6	

OUTPUT:

What is the name of the most expensive item purchased?

```
QUERY : SELECT DESCRIPTION,TOTAL_FINAL_PRICE
        FROM `vocal-terminal-280611.data_assignment.receipt_items`
        GROUP BY 1,2
        ORDER BY 2 DESC
        LIMIT 1
        #COMBINING THE YEARS AS ASSUMPTION
```

Query results

	JOB INFORMATION	RESULTS	JSON

Row	DESCRIPTION	TOTAL_FINAL_P
1	Starbucks Iced Coffee Premium Coffee Beverage Unsweetened Blonde Roast Bottle 48 Oz 1 Ct	31005.99

OUTPUT:

5). How many users scanned in each month?
QUERY :
```
SELECT COUNT(DISTINCT USER_ID) AS COUNTING,EXTRACT(MONTH FROM DATE_SCANNED) AS MON
 FROM `vocal-terminal-280611.data_assignment.receipts`
 GROUP BY 2
 ORDER BY MON
```

#WE ARE COMBINING THE YEARS AS ASSUMPTION

Query results

JOB INFORMATION	**RESULTS**

Row	COUNTING	MON
1	97	1
2	87	2
3	89	3
4	90	4
5	88	5
6	88	6
7	88	7
8	88	8

OUTPUT :