

# SQL assignment

Name: Anushree Manoj

Reg no: 2337011

## Dataset 1: the Iowa liquor sales dataset

Q1. All the stores having bottle volumes greater than 20?

```
SELECT store_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE bottle_volume_ml > 20
```

The screenshot shows the Google Cloud BigQuery console. At the top, the query editor displays the SQL code for Q1. Below the editor, the 'Query results' section is active, showing a table with 6 rows of store names. The interface includes standard BigQuery controls like 'RUN', 'SAVE', 'DOWNLOAD', and 'SHARE' buttons. The status bar at the bottom indicates 'Query completed'.

Row	store_name
1	SA PETRO MART
2	QUIK TRIP #575 / COUNCIL BL...
3	HY-VEE DRUGSTORE / MARSH...
4	BENDER'S FOODS
5	WAL-MART 1431 / KEOKUK
6	SAC CITY FOOD PRIDE

Q2. All the stores that don't sell whiskey liquor?

```
SELECT store_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE category_name <> 'WHISKEY LIQUEUR';
```

The screenshot shows the Google Cloud BigQuery console with the SQL code for Q2. The 'Query results' section displays a table with 6 rows of store names. The interface is consistent with the previous screenshot, showing the query editor, execution buttons, and the completed query status.

Row	store_name
1	SAVE A LOT #482
2	FAREWAY STORES #940 / ATL...
3	WINE AND SPIRITS SHOPPE OF
4	WAL-MART 1965 / COUNCIL B...
5	HY-VEE DRUGSTORE #5 / CED...
6	FAREWAY STORES #055 / HIA...

Q3. Name all the vendor selling the item '99 fruits mini' with bottle volumes less than 50?

```
SELECT vendor_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE item_description = '99 FRUITS MINI'
AND bottle_volume_ml = 50;
```

The screenshot shows a BigQuery query editor with the following SQL query:

```
--Q3 Name all the vendor selling the item '99 fruits mini' with bottle volumes less than 50?
SELECT vendor_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE item_description = '99 FRUITS MINI'
AND bottle_volume_ml = 50;
```

The query results are displayed in a table with the following data:

Row	vendor_name
5	SAZERAC COMPANY INC
6	SAZERAC COMPANY INC
7	SAZERAC COMPANY INC
8	SAZERAC COMPANY INC
9	SAZERAC COMPANY INC

The interface also shows a status bar indicating "Results per page: 50" and "1 - 50 of 6015".

Q4. What is the count of liquor categories for each item where the pack size is 10 in the Iowa liquor sales dataset?

```
SELECT item_description, COUNT(category_name) AS liquer_count
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE pack = 10
GROUP BY item_description;
```

The screenshot shows a BigQuery query editor with the following SQL query:

```
-- Q4 What is the count of liquor categories for each item where the pack size is 10?
SELECT item_description, COUNT(category_name) AS liquer_count
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE pack = 10
GROUP BY item_description;
```

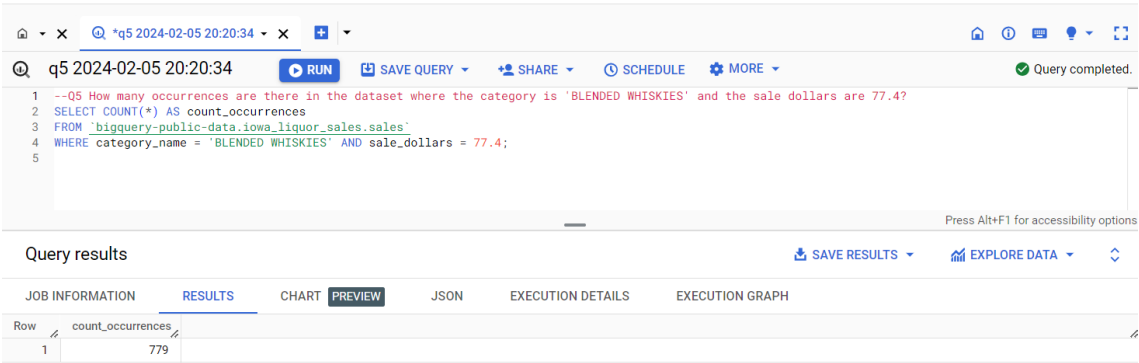
The query results are displayed in a table with the following data:

Row	item_description	liquor_count
1	ABSOLUT WILD BERRI MINI	223
2	CALYPSO SPICED RUM MINI	68
3	99 CHERRIES MINI	667
4	NEW AMSTERDAM VODKA MINI	6156
5	SVEDKA STRAWBERRY COLADA	139
6	WOODFORD RESERVE MINI	33

The interface also shows a status bar indicating "Results per page: 50" and "1 - 50 of 272".

Q5. How many occurrences are there in the Iowa liquor sales dataset where the category is 'BLENDED WHISKIES' and the sale dollars are 77.4?

```
SELECT COUNT(*) AS count_occurrences
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE category_name = 'BLENDED WHISKIES' AND sale_dollars = 77.4;
```

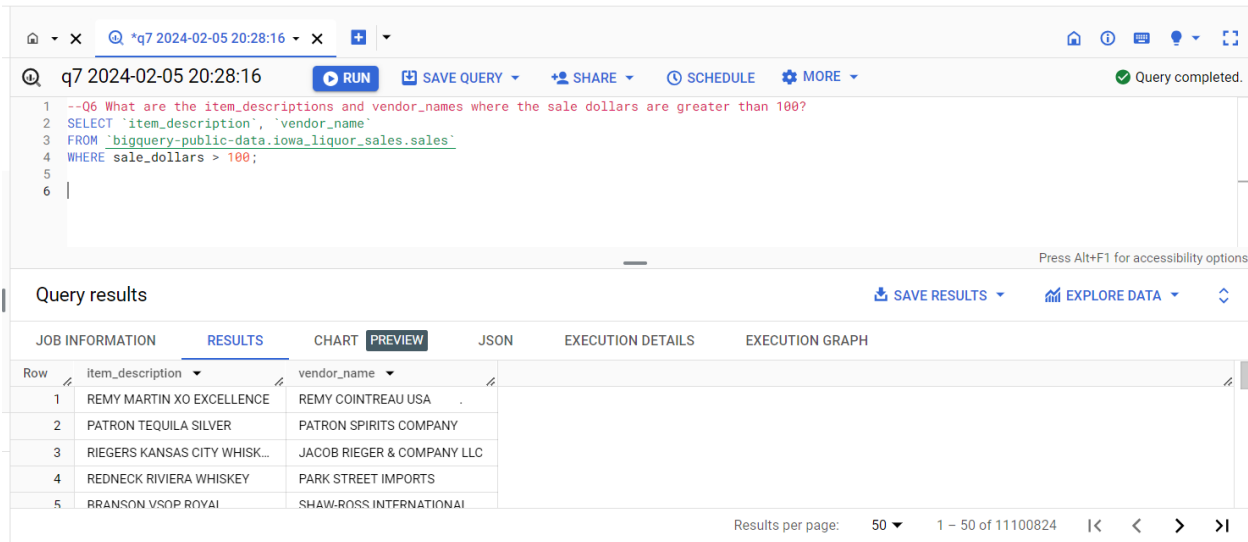


The screenshot shows the BigQuery web interface. At the top, the query editor displays the SQL query for Q5. Below the editor, the 'Query results' section is active, showing a table with one row and one column, 'count\_occurrences', with a value of 779. The interface includes tabs for 'JOB INFORMATION', 'RESULTS', 'CHART', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION GRAPH'. The 'RESULTS' tab is selected, and the table is displayed in a simple grid format.

Row	count_occurrences
1	779

Q6. What are the item\_descriptions and vendor\_names of items in the Iowa liquor sales dataset where the sale dollars are greater than 100?

```
SELECT `item_description`, `vendor_name`
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE sale_dollars > 100;
```



The screenshot shows the BigQuery web interface. At the top, the query editor displays the SQL query for Q6. Below the editor, the 'Query results' section is active, showing a table with two columns, 'item\_description' and 'vendor\_name'. The table contains five rows of data. The interface includes tabs for 'JOB INFORMATION', 'RESULTS', 'CHART', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION GRAPH'. The 'RESULTS' tab is selected, and the table is displayed in a simple grid format.

Row	item_description	vendor_name
1	REMY MARTIN XO EXCELLENCE	REMY COINTREAU USA
2	PATRON TEQUILA SILVER	PATRON SPIRITS COMPANY
3	RIEGERS KANSAS CITY WHISK...	JACOB RIEGER & COMPANY LLC
4	REDNECK RIVIERA WHISKEY	PARK STREET IMPORTS
5	BRANSON VSOP ROYAL	SHAW-ROSS INTERNATIONAL

Q7. What are the category\_name values in the Iowa liquor sales dataset where the vendor\_numbers are equal to '421'?

```
SELECT category_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE vendor_number = '421';
```

The screenshot shows the Google Cloud BigQuery interface. At the top, there's a query editor with the following SQL code:

```
--Q7 What are the category_name values in dataset where the vendor_numbers are equal to '421'?
SELECT category_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE vendor_number = '421';
```

Below the query editor, the 'Query results' section is visible. It includes a table with the following data:

Row	category_name
1	AMERICAN FLAVORED VODKA
2	SPICED RUM
3	AMERICAN FLAVORED VODKA
4	AMERICAN FLAVORED VODKA
5	MISC. IMPORTED CORDIALS & ...

The interface also shows navigation options like 'SAVE RESULTS', 'EXPLORE DATA', and 'PREVIEW'. The bottom status bar indicates 'Results per page: 50' and '1 - 50 of 2067658'.

Q8. In which stores in the dataset, the item 'CROWN ROYAL PEACH MINI' is sold?

```
SELECT store_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE item_description = 'CROWN ROYAL PEACH MINI'
```

The screenshot shows the Google Cloud BigQuery interface. At the top, there's a query editor with the following SQL code:

```
--Q8 In which stores in the dataset, the item 'CROWN ROYAL PEACH MINI' is sold?
SELECT store_name
FROM `bigquery-public-data.iowa_liquor_sales.sales`
WHERE item_description = 'CROWN ROYAL PEACH MINI'
```

Below the query editor, the 'Query results' section is visible. It includes a table with the following data:

Row	store_name
1	EICHMAN ENTERPRISES INC / ...
2	HAPPY'S WINE & SPIRITS
3	CASEY'S GENERAL STORE #61...
4	SHADE TREE LIQUORS
5	CASEY'S GENERAL STORE #37...

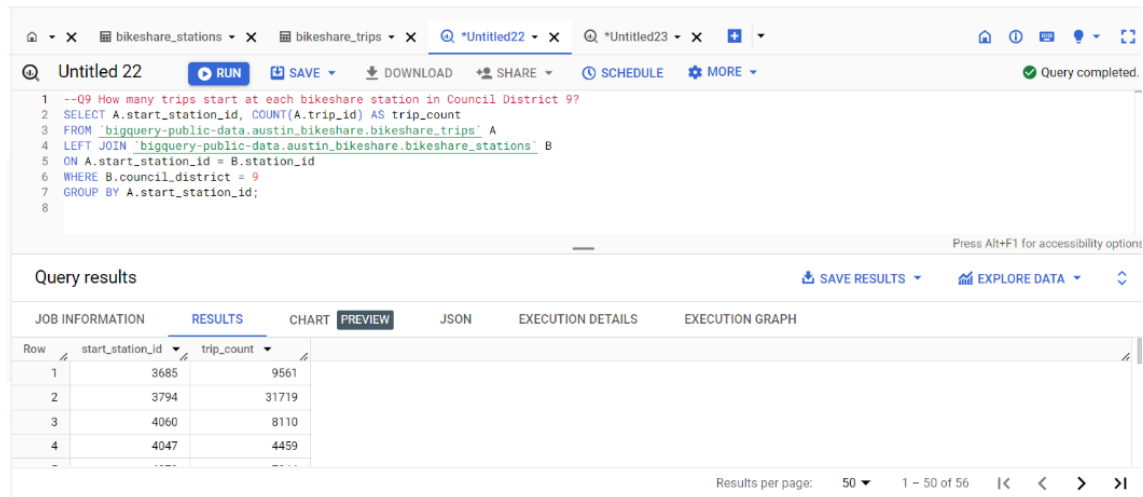
The interface also shows navigation options like 'SAVE RESULTS', 'EXPLORE DATA', and 'PREVIEW'. The bottom status bar indicates 'Results per page: 50' and '1 - 50 of 1966'.

## Dataset 2: the Austin Bikeshare dataset

### Join queries

Q9. How many trips start at each bikeshare station in Council District 9 in the dataset?

```
SELECT A.start_station_id, COUNT(A.trip_id) AS trip_count
FROM `bigquery-public-data.austin_bikeshare.bikeshare_trips` A
LEFT JOIN `bigquery-public-data.austin_bikeshare.bikeshare_stations` B
ON A.start_station_id = B.station_id
WHERE B.council_district = 9
GROUP BY A.start_station_id;
```

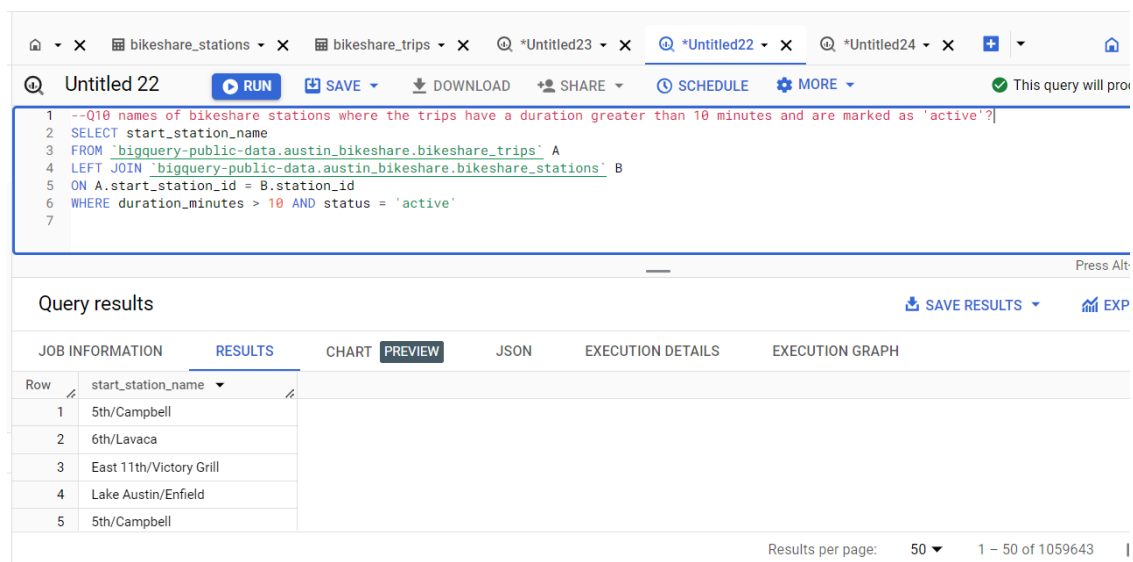


Query results

Row	start_station_id	trip_count
1	3685	9561
2	3794	31719
3	4060	8110
4	4047	4459

Q10. What are the names of bikeshare stations in Austin where the trips have a duration greater than 10 minutes and are marked as 'active'?

```
SELECT start_station_name
FROM `bigquery-public-data.austin_bikeshare.bikeshare_trips` A
LEFT JOIN `bigquery-public-data.austin_bikeshare.bikeshare_stations` B
ON A.start_station_id = B.station_id
WHERE duration_minutes > 10 AND status = 'active'
```



Query results

Row	start_station_name
1	5th/Campbell
2	6th/Lavaca
3	East 11th/Victory Grill
4	Lake Austin/Enfield
5	5th/Campbell

**Query links:**

<https://console.cloud.google.com/bigquery?sq=383524323385:3b2732e6809f4f0db351a60f1cc3850a>

<https://console.cloud.google.com/bigquery?sq=383524323385:20b1725b1203471ea1e3f38d6b863652>

<https://console.cloud.google.com/bigquery?sq=383524323385:c48a342ff5f443b5ac1929b588de3ac5%27>

<https://console.cloud.google.com/bigquery?sq=383524323385:1579bf52d64549378a94761a913f25ae>

<https://console.cloud.google.com/bigquery?sq=383524323385:1aa92670b71f4a82a009d0574be143e7>

<https://console.cloud.google.com/bigquery?sq=383524323385:b17e4ad237a147318e21aefb9eaa482c>

<https://console.cloud.google.com/bigquery?sq=383524323385:3a9e25fcd1d3479fa2e8c181cfc444d8%27>

<https://console.cloud.google.com/bigquery?sq=383524323385:770ea039c58541f98d8d340f12d23e5f%27>

<https://console.cloud.google.com/bigquery?sq=383524323385:ca72f9b09f5a49bc9f48d66888501e23>

<https://console.cloud.google.com/bigquery?sq=383524323385:328f7f5020cb4a7598ef788471e06c87>