

SQL assignment

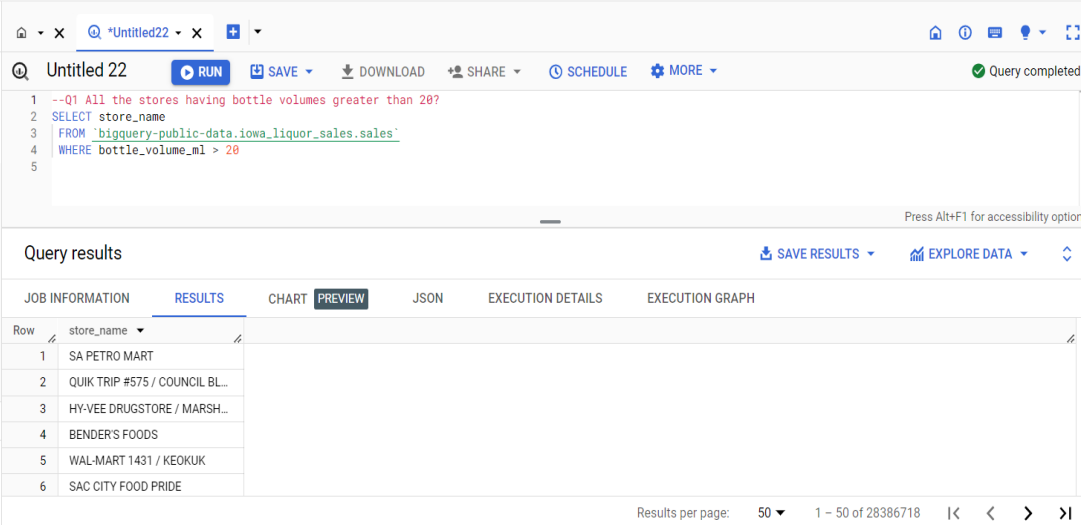
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Dataset 1: the Iowa liquor sales dataset

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 a BigQuery interface with a query editor and a results table. The query editor contains the following SQL code:

```
--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 results table displays the following data:

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

The interface also shows a status bar at the bottom indicating "Results per page: 50" and "1 - 50 of 28386718".

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';
```

Untitled 23 RUN SAVE DOWNLOAD SHARE SCHEDULE MORE Query completed.

```

1 --Q2 All the stores that don't sell whiskey liquer?
2 SELECT store_name
3 FROM `bigquery-public-data.iowa_liquor_sales.sales`
4 WHERE category_name <> 'WHISKEY LIQUEUR';
5

```

Press Alt+F1 for accessibility option

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION RESULTS CHART PREVIEW JSON EXECUTION DETAILS EXECUTION GRAPH

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...

Results per page: 50 1 - 50 of 27046009

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;

```

Q3 2024-02-05 19:33:09 RUN SAVE QUERY SHARE SCHEDULE MORE This query will process 1.35 GB when run.

```

1 --Q3 Name all the vendor selling the item '99 fruits mini' with bottle volumes less than 50?
2 SELECT vendor_name
3 FROM `bigquery-public-data.iowa_liquor_sales.sales`
4 WHERE item_description = '99 FRUITS MINI'
5 AND bottle_volume_ml = 50;
6

```

Press Alt+F1 for accessibility options

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION RESULTS CHART PREVIEW JSON EXECUTION DETAILS EXECUTION GRAPH

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

Results per page: 50 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;

```


q7 2024-02-05 20:28:16 [RUN](#) [SAVE QUERY](#) [SHARE](#) [SCHEDULE](#) [MORE](#) Query completed.

```

1 --Q6 What are the item_descriptions and vendor_names where the sale dollars are greater than 100?
2 SELECT `item_description`, `vendor_name`
3 FROM `bigquery-public-data.iowa_liquor_sales.sales`
4 WHERE sale_dollars > 100;
5
6 |

```

Press Alt+F1 for accessibility options

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH
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				

Results per page: 50 1 – 50 of 11100824

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';

```

q7 2024-02-05 20:36:44 [RUN](#) [SAVE QUERY](#) [SHARE](#) [SCHEDULE](#) [MORE](#) Query completed.

```

1 --Q7 What are the category_name values in dataset where the vendor_numbers are equal to '421'?
2 SELECT category_name
3 FROM `bigquery-public-data.iowa_liquor_sales.sales`
4 WHERE vendor_number = '421';
5

```

Press Alt+F1 for accessibility options

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	category_name					
1	AMERICAN FLAVORED VODKA					
2	SPICED RUM					
3	AMERICAN FLAVORED VODKA					
4	AMERICAN FLAVORED VODKA					
5	MISC. IMPORTED CORDIALS & ...					

Results per page: 50 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'

```


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'
```

The screenshot shows the Google Cloud BigQuery console interface. At the top, there are tabs for 'bikeshare_stations', 'bikeshare_trips', and several 'Untitled' query windows. The active window is 'Untitled 22', which contains the SQL query from the previous block. Below the query editor, there are buttons for 'RUN', 'SAVE', 'DOWNLOAD', 'SHARE', 'SCHEDULE', and 'MORE'. A status message on the right says 'This query will pro...'. Below the query editor, the 'Query results' section is visible. It has tabs for 'JOB INFORMATION', 'RESULTS', 'CHART', 'PREVIEW', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION GRAPH'. The 'RESULTS' tab is selected, showing a table with 5 rows and 1 column, 'start_station_name'. The rows contain the following station names: '5th/Campbell', '6th/Lavaca', 'East 11th/Victory Grill', 'Lake Austin/Enfield', and '5th/Campbell'. At the bottom right, it says 'Results per page: 50' and '1 - 50 of 1059643'.

```
1 --Q10 names of bikeshare stations where the trips have a duration greater than 10 minutes and are marked as 'active'?
2 SELECT start_station_name
3 FROM `bigquery-public-data.austin_bikeshare.bikeshare_trips` A
4 LEFT JOIN `bigquery-public-data.austin_bikeshare.bikeshare_stations` B
5 ON A.start_station_id = B.station_id
6 WHERE duration_minutes > 10 AND status = 'active'
7
```

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

Results per page: 50 1 - 50 of 1059643

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=383524323385:1579bf52d64549378a94761a913f25ac>

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

<https://console.cloud.google.com/bigquery?sq=383524323385:b17e4ad237a147318e21acfb9eaa482c>

<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>