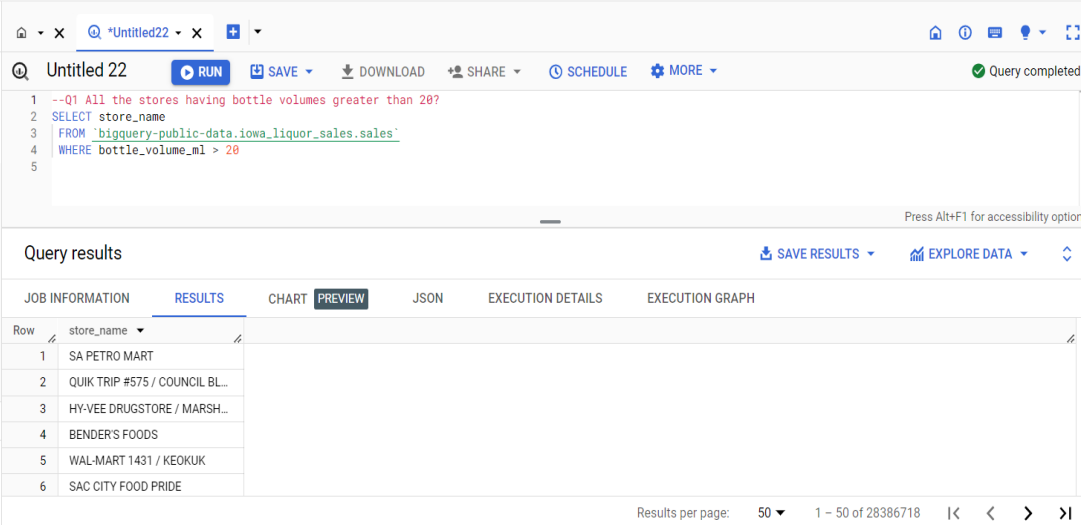# SQL assignment

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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

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

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

```
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
```

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;


```
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
```

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

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;

```
1  -- Q4 What is the count of liquor categories for each item where the pack size is 10?
2  SELECT item_description, COUNT(category_name) AS liquer_count
3  FROM `bigquery-public-data.iowa_liquor_sales.sales`
4  WHERE pack = 10
5  GROUP BY item_description;
6
```

Query results

Row	item_description	liquer_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

Results per page: 50 ▾   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;


```
1  --Q5 How many occurrences are there in the dataset where the category is 'BLENDED WHISKIES' and the sale dollars are 77.4?
2  SELECT COUNT(*) AS count_occurrences
3  FROM `bigquery-public-data.iowa_liquor_sales.sales`
4  WHERE category_name = 'BLENDED WHISKIES' AND sale_dollars = 77.4;
5
```

Query results

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;

```
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   |
```

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

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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';


```
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
```

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

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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'

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;

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 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