













1. Total Sales for each store:

```
SELECT store_name, SUM(sale_dollars) AS total_sales
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
GROUP BY store_name;
```

Query results				 SAVE RESULTS ▾	 EXPLORE DATA ▾	
<	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL >
Row	store_name ▾	total_sales ▾				
1	Thriftway	18405.79				
2	New Star / Fort Dodge	27293.32999999...				
3	Casey's General Store #1280 / ...	42209.11999999...				
4	KUM & GO #76 / ADAIR	55390.65999999...				
5	Casey's General Store #2521 / ...	33645.28				
6	Kum & Go #2093 / Adel	97165.26999999...				
7	Farewav Stores #124 / Adel	512549.7900000...				
Results per page: 50 ▾				1 – 50 of 1881	   	
Job history				 REFRESH		

2. Highest sales:

```
SELECT store_name, SUM(sale_dollars) AS total_sales
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
GROUP BY store_name
ORDER BY total_sales DESC
LIMIT 1;
```

Query results				 SAVE RESULTS ▾	 EXPLORE DATA ▾	
<	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL >
Row	store_name ▾	total_sales ▾				
1	Central City 2	8304851.590000...				

3. Retrieve the records where the sale (in dollars) is greater than 200,000

```
SELECT *
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
WHERE sale_dollars > 200000;
```

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

	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL
Row	date	store_name	city	zip_code		
1	2020-09-23	Sam's Club 6568 / Ames	Ames	50010		
2	2020-06-09	Costco Wholesale #788 / WDM	West Des Moines	50266		
3	2020-10-08	Hy-Vee #3 / BDI / Des Moines	Des Moines	50320		
4	2020-09-29	Hy-Vee Food Store / Urbandale	Urbandale	50322		
5	2020-10-06	Hy-Vee Food Store / Urbandale	Urbandale	50322		
6	2020-10-01	Hy-Vee Food Store / Urbandale	Urbandale	50322		
7	2020-09-22	Sam's Club 6432 / Sioux City	Sioux City	51106		
8	2020-09-23	Sam's Club 6472 / Council Bluffs	Council Bluffs	51501		
9	2020-09-18	Sam's Club 4973 / Dubuque	Dubuque	52002		
10	2020-09-18	Sam's Club 8238 / Davenport	Davenport	52807		
11	2020-03-25	Sam's Club 6344 / Windsor Hei...	Windsor Heights	50311.0		
12	2020-03-26	Sam's Club 8162 / Cedar Rapids	Cedar Rapids	52402.0		

4. Average Sale Amount per transaction:

```
SELECT AVG(sale_dollars) AS average_sale
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train;
```

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

	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL
Row	average_sale					
1	6175.186917724...					

5. Sales between 40,900 to 41,000

```
SELECT *
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
WHERE sale_dollars BETWEEN 40900 AND 41000;
```



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

	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL
Row	date	store_name	city	zip_code		
1	2020-06-23	Sam's Club 6514 / Waterloo	Waterloo	50702		
2	2020-08-20	Hy-Vee Food Store / Altoona	Altoona	50009.0		
3	2020-04-22	Hy-Vee Wine and Spirits / Anke...	Ankeny	50021.0		
4	2020-03-04	Sam's Club 6344 / Windsor Hei...	Windsor Heights	50311.0		
5	2020-12-26	Hy-Vee Food Store #3 / Cedar ...	Cedar Rapids	52404.0		
6	2020-01-24	Hy-Vee Wine and Spirits / Bette...	Bettendorf	52722.0		

6. Top 3 stores with the highest average sales:

```
SELECT store_name, AVG(sale_dollars) AS average_sale
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
GROUP BY store_name
ORDER BY average_sale DESC
LIMIT 3;
```

Query results

 SAVE RESULTS
  EXPLORE DATA

	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL
Row	store_name	average_sale				
1	Costco Wholesale #788 / WDM	86038.96192307...				
2	Sam's Club 8162 / Cedar Rapids	57002.73132075...				
3	Sam's Club 6979 / Ankeny	53948.23150943...				

7. Total sales for each month:

```
SELECT EXTRACT(MONTH FROM date) AS month, SUM(sale_dollars) AS total_sales
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
GROUP BY month
ORDER BY month;
```

Query results

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

	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAILS
Row	month	total_sales				
1		1	24794498.26000...			
2		2	25720303.89999...			
3		3	31210733.11000...			
4		4	31987264.67999...			
5		5	32081114.17999...			
6		6	36007842.99999...			
7		7	34272654.20000...			
8		8	33722408.12000...			
9		9	36780839.35000...			
10		10	37465199.10000...			
11		11	31823796.13999...			
12		12	40796477.61999...			

8. Find the store with sale of \$1002:




```
SELECT *
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train
WHERE sale_dollars = 1002;
```

Query results					SAVE RESULTS	EXPLORE DATA	
<	JOB INFORMATION	RESULTS	CHART	PREVIEW	JSON	EXECUTION DETAIL	>
Row	date	store_name	city	zip_code			
1	2020-02-19	KUM & GO #117 / Spirit Lake	Spirit Lake	51360.0			

9. Inner Join

```
SELECT *
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train AS a
INNER JOIN bigquery-public-data.iowa_liquor_sales_forecasting.2021_sales_predict AS b
ON a.store_name = b.store_name;
LIMIT 5;
```

Query results

 SAVE RESULTS ▾  EXPLORE DATA ▾ 

< N

RESULTS

CHART

PREVIEW

JSON

EXECUTION DETAILS

EXECUTION

>

Row	date ▾	store_name ▾	city ▾	zip_code ▾
1	2020-06-08	New Star / Fort Dodge	null	null
2	2020-06-08	New Star / Fort Dodge	null	null
3	2020-06-08	New Star / Fort Dodge	null	null
4	2020-06-08	New Star / Fort Dodge	null	null
5	2020-06-08	New Star / Fort Dodge	null	null

10. Left Join:

```
SELECT *
FROM bigquery-public-data.iowa_liquor_sales_forecasting.2020_sales_train AS a
LEFT JOIN bigquery-public-data.iowa_liquor_sales_forecasting.2021_sales_predict AS b
ON a.county = b.county
WHERE a.county = 'Dallas';
LIMIT 4;
```

Query results

SAVE RESULTS

EXPLORE DATA

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JOB INFORMATION

RESULTS

CHART

PREVIEW

JSON

EXECUTION DETAIL

>

Row	store_name	city	zip_code	count
1	Hy-Vee Gas #3 / WDM	West Des Moines	50266	Dallas
2	Hy-Vee Gas #3 / WDM	West Des Moines	50266	Dallas
3	Hy-Vee Gas #3 / WDM	West Des Moines	50266	Dallas
4	Hy-Vee Gas #3 / WDM	West Des Moines	50266	Dallas
5	Hy-Vee Gas #3 / WDM	West Des Moines	50266	Dallas