```sql
1  --Maven Pizza Exploratory Data Analyis in SQL
2
3  --How many customers do we have each day?
4  SELECT DATE(date) AS order_date, COUNT(DISTINCT order_id) AS customer_count
5  FROM all_pizza_data
6  GROUP BY DATE(date)
7  ORDER BY DATE(date);
8
```

Data Output   Messages   Graph Visualiser ✕   Notifications

order_date date	customer_count bigint
1	2015-01-01	68
2	2015-01-02	67
3	2015-01-03	63
4	2015-01-04	50
5	2015-01-05	52
6	2015-01-06	64
7	2015-01-07	57
8	2015-01-08	70
9	2015-01-09	62
10	2015-01-10	64
11	2015-01-11	52
12	2015-01-12	53

Total rows: 358 of 358   Query complete 00:00:00.105

```
 8
 9   --Average Customer Count by Day of Week in Descending Order
10   SELECT DATE_PART('dow', date) AS day_of_week, AVG(order_count) AS average_order_count
11   FROM (
12     SELECT DATE(date) AS date, COUNT(DISTINCT order_id) AS order_count
13     FROM all_pizza_data
14     GROUP BY DATE(date)
15   ) AS subquery
16   GROUP BY day_of_week
17   ORDER BY average_order_count DESC;
18
```

Data Output   Messages   Graph Visualiser ✕   Notifications

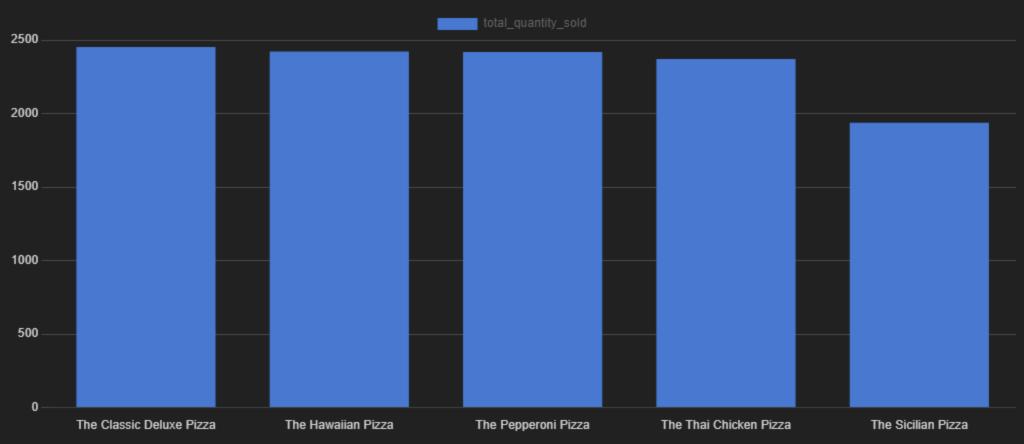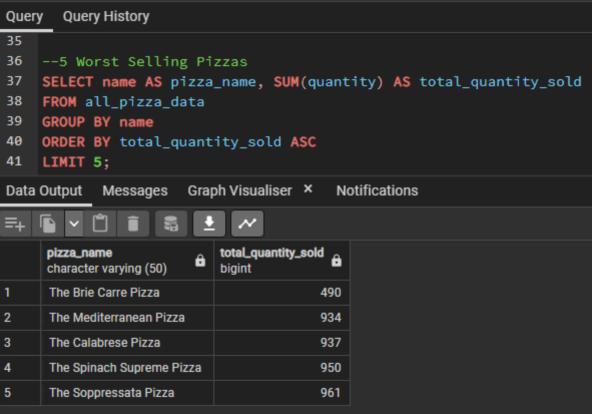|	day_of_week double precision 🔒	average_order_count numeric 🔒
1	5	67.8200000000000000
2	4	59.7692307692307692
3	6	58.6730769230769231
4	3	56.0192307692307692
5	1	55.6041666666666667
6	2	54.8269230769230769
7	0	48.4807692307692308

```sql
19  --Peak Hours
20  SELECT EXTRACT(HOUR FROM "time") AS hour, COUNT(DISTINCT order_id) AS order_count
21  FROM all_pizza_data
22  GROUP BY hour
23  ORDER BY order_count DESC;
```

Data Output   Messages   Graph Visualiser ✕   Notifications

	hour numeric	order_count bigint
1	12	2389
2	13	2336
3	18	2320
4	17	2266
5	19	1944
6	16	1862
7	20	1589
8	15	1419
9	14	1398
10	11	1169
11	21	1147
12	22	629
13	23	27
14	10	8

```sql
25  --How many pizzas are typically in an order
26  SELECT AVG(quantity) AS average_pizzas_per_order
27  FROM all_pizza_data;
```

Query   Query History

Data Output   Messages   Graph Visualiser ×   Notifications

	average_pizzas_per_order 🔒 numeric
1	1.0187957948391206

```sql
28
29  --Top 5 Best Selling Pizzas
30  SELECT name AS pizza_name, SUM(quantity) AS total_quantity_sold
31  FROM all_pizza_data
32  GROUP BY name
33  ORDER BY total_quantity_sold DESC
34  LIMIT 5;
```

Data Output   Messages   Graph Visualiser ×   Notifications

	pizza_name character varying (50)	total_quantity_sold bigint
1	The Classic Deluxe Pizza	2453
2	The Hawaiian Pizza	2422
3	The Pepperoni Pizza	2418
4	The Thai Chicken Pizza	2371
5	The Sicilian Pizza	1938

Query | Query History

```sql
35
36  --5 Worst Selling Pizzas
37  SELECT name AS pizza_name, SUM(quantity) AS total_quantity_sold
38  FROM all_pizza_data
39  GROUP BY name
40  ORDER BY total_quantity_sold ASC
41  LIMIT 5;
```

Data Output | Messages | Graph Visualiser ✕ | Notifications

	pizza_name character varying (50) 🔒	total_quantity_sold bigint 🔒
1	The Brie Carre Pizza	490
2	The Mediterranean Pizza	934
3	The Calabrese Pizza	937
4	The Spinach Supreme Pizza	950
5	The Soppressata Pizza	961

	Query	Query History

```sql
42
43   --How much money made this year
44   SELECT SUM(quantity * price) AS total_revenue
45   FROM all_pizza_data;
```

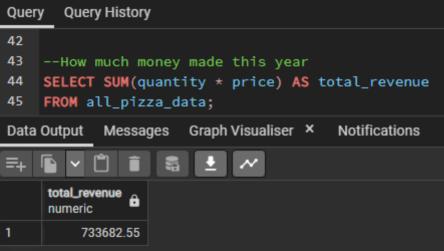| Data Output	Messages	Graph Visualiser ×	Notifications

	total_revenue 🔒 numeric	
1	733682.55

```sql
--How many customers per season
SELECT
  CASE
    WHEN EXTRACT(MONTH FROM date) IN (3, 4, 5) THEN 'Spring'
    WHEN EXTRACT(MONTH FROM date) IN (6, 7, 8) THEN 'Summer'
    WHEN EXTRACT(MONTH FROM date) IN (9, 10, 11) THEN 'Fall'
    WHEN EXTRACT(MONTH FROM date) IN (12, 1, 2) THEN 'Winter'
  END AS season,
  COUNT(DISTINCT order_id) AS customer_count
FROM all_pizza_data
GROUP BY season;
```

Data Output | Messages | Graph Visualiser × | Notifications

	season text	customer_count bigint
1	Fall	4907
2	Spring	5273
3	Summer	5317
4	Winter	5007

```sql
58
59  --Revenue Per Month
60  SELECT DATE_TRUNC('month', date) AS month, SUM(quantity * price) AS monthly_revenue
61  FROM all_pizza_data
62  GROUP BY month
63  ORDER BY month;
```

Data Output | Messages | Graph Visualiser × | Notifications

	month timestamp with time zone 🔒	monthly_revenue 🔒 numeric
1	2015-01-01 00:00:00+08	62551.55
2	2015-02-01 00:00:00+08	58205.85
3	2015-03-01 00:00:00+08	62890.35
4	2015-04-01 00:00:00+08	61856.3
5	2015-05-01 00:00:00+08	63888
6	2015-06-01 00:00:00+08	60982.2
7	2015-07-01 00:00:00+08	65521.4
8	2015-08-01 00:00:00+08	61000.75
9	2015-09-01 00:00:00+08	57711.3
10	2015-10-01 00:00:00+08	58248.1
11	2015-11-01 00:00:00+08	62820.85
12	2015-12-01 00:00:00+08	58005.9