**Pizza Sales Queries**

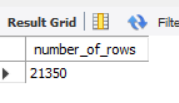
**Question 1:** Number of Rows in each table

```

SELECT COUNT(\*) FROM orders;

```

**Output:**

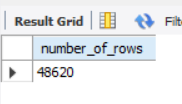


```

SELECT COUNT(\*) FROM order\_details; # 48620

```

**Output:**

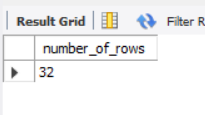


```

SELECT COUNT(\*) FROM pizza\_types; # 32

```

**Output:**

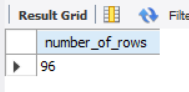


```

SELECT COUNT(\*) FROM pizzas; # 96

```

**Output:**



**Question 2:** What is the year of data present

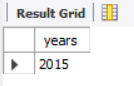
```

SELECT DISTINCT YEAR(date)

FROM orders; # 2015

```

**Output**

****

**Question 3:** Number of pizza sold per each category

```

SELECT pt.category, COUNT(\*) AS number\_of\_pizza\_sold

FROM order\_details od

JOIN pizzas p

ON od.pizza\_id=p.pizza\_id

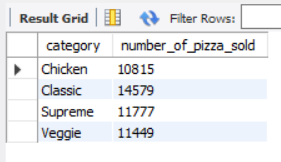
JOIN pizza\_types pt

ON p.pizza\_type\_id=pt.pizza\_type\_id

GROUP BY pt.category;

```

**Output:**



**Question 4:** Percentage of pizza sales per category

```

SELECT pt.category,

ROUND(SUM(od.quantity\*p.price)\*100/ (SELECT SUM(od.quantity\*p.price)

FROM orders o

JOIN order\_details od

ON o.order\_id=od.order\_id

JOIN pizzas p

ON od.pizza\_id=p.pizza\_id

-- WHERE MONTH(o.date) = 1 # if some filter is appliead outside subquery than it should also be present here for accurate results

), 4) AS percentage\_of\_sales\_per\_pizza

FROM orders o

JOIN order\_details od

ON o.order\_id=od.order\_id

JOIN pizzas p

ON od.pizza\_id=p.pizza\_id

JOIN pizza\_types pt

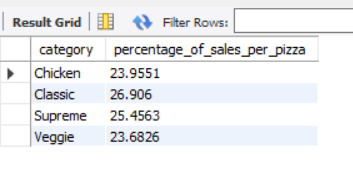
ON p.pizza\_type\_id=pt.pizza\_type\_id

-- WHERE MONTH(o.date) = 1 # To check for single month (currently checking for January)

GROUP BY pt.category;

```

**Output:**



**Question 5:** Percentage of pizza sales per category

```

SELECT p.size,

ROUND(SUM(od.quantity\*p.price)\*100/ (SELECT SUM(od.quantity\*p.price)

FROM orders o

JOIN order\_details od

ON o.order\_id=od.order\_id

JOIN pizzas p

ON od.pizza\_id=p.pizza\_id

-- WHERE MONTH(o.date) = 1 # if some filter is appliead outside subquery than it should also be present here for accurate results

), 4) AS percentage\_of\_sales\_per\_pizza

FROM orders o

JOIN order\_details od

ON o.order\_id=od.order\_id

JOIN pizzas p

ON od.pizza\_id=p.pizza\_id

JOIN pizza\_types pt

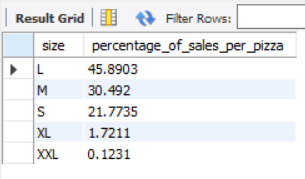
ON p.pizza\_type\_id=pt.pizza\_type\_id

-- WHERE MONTH(o.date) = 1 # To check for single month (currently checking for January)

GROUP BY p.size;

```

**Output:**



**Question 6:** Average Order Value

```

SELECT

SUM(p.price\*od.quantity)/COUNT(DISTINCT od.order\_id) AS Avg\_Order\_Value

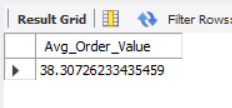
FROM order\_details od

JOIN pizzas p

ON od.pizza\_id=p.pizza\_id;

```

**Output:**



**Question 7:** Total pizza sold

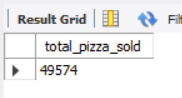
```

SELECT SUM(quantity) AS total\_pizza\_sold

FROM order\_details;

```

**Output:**



**Question 8:** Total order placed

```

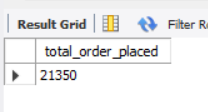
SELECT

COUNT(DISTINCT order\_id) AS total\_order\_placed

FROM order\_details;

```

**Output:**



**Question 9:** Average pizza per order

```

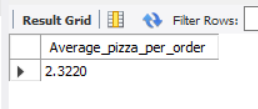
SELECT

SUM(quantity)/COUNT(DISTINCT order\_id) AS Average\_pizza\_per\_order

FROM order\_details;

```

**Output:**



**Question 10:** Week wise total orders

```

SELECT

DAYNAME(date) AS weekdays,

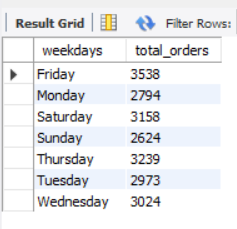
COUNT(DISTINCT order\_id) AS total\_orders

FROM orders

GROUP BY weekdays;

```

**Output:**



**Question 11:** What days and times do we tend to be busiest?

```

SELECT

DAY(o.date) AS busiest\_day,

HOUR(o.time) AS busiest\_hour,

COUNT(o.order\_id) AS total\_number\_of\_orders

FROM

orders o

JOIN

order\_details od ON o.order\_id = od.order\_id

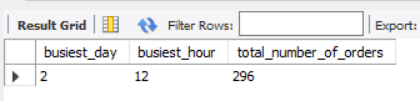
GROUP BY DAY(o.date) , HOUR(o.time)

ORDER BY total\_number\_of\_orders DESC

LIMIT 1;

```

**Output:**



**Question 12:** How many customers do we have each day? Are there any peak hours?

```

SELECT DATE(o.date) AS date,

COUNT(\*) AS number\_of\_customer\_each\_day,

COUNT(DISTINCT o.order\_id) AS number\_of\_customers

FROM orders o

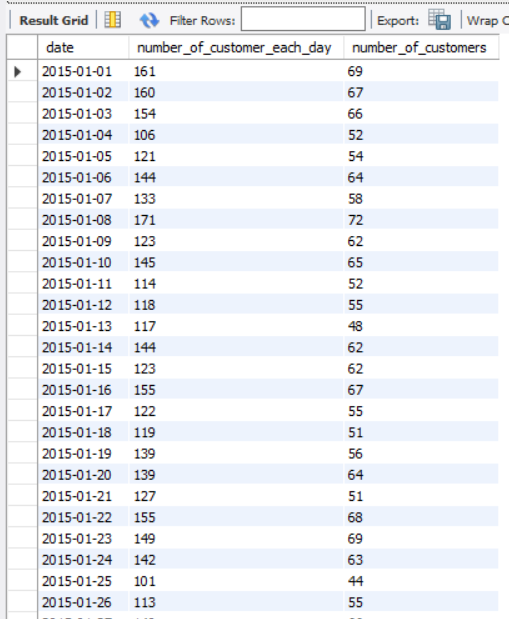
JOIN order\_details od

ON o.order\_id=od.order\_id

GROUP BY DATE(o.date);

```

**Output:**



**Question 13:** How many pizzas are we making during peak periods?

```

WITH peak\_hour AS (

SELECT HOUR(o.time) AS busiest\_hour

FROM orders o

GROUP BY HOUR(o.time)

ORDER BY COUNT(o.order\_id) DESC

LIMIT 1

)

SELECT COUNT(od.pizza\_id) AS pizzas\_at\_peak\_hour

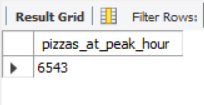
FROM order\_details od

JOIN orders o ON od.order\_id = o.order\_id

JOIN peak\_hour ph ON HOUR(o.time) = ph.busiest\_hour;

```

**Output:**



**Question 14:** How many pizzas are typically in an order? Do we have any bestsellers?

```

SELECT

order\_id, MIN(quantity) AS pizzas\_typically\_in\_an\_order

FROM

order\_details

GROUP BY order\_id;

-- best seller

SELECT

p.pizza\_id,

pt.name,

SUM(od.quantity \* p.price) AS total\_sales

FROM

order\_details od

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

JOIN

pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id

GROUP BY p.pizza\_id

ORDER BY total\_sales DESC

LIMIT 1;

```

**Question 15:** What are top 5 Best selling pizzas

```

SELECT

pt.name,

ROUND(SUM(od.quantity\*p.price), 4) AS total\_sales

FROM

order\_details od

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

JOIN

pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id

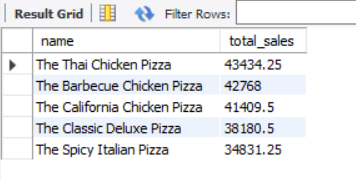
GROUP BY pt.name

ORDER BY total\_sales DESC

LIMIT 5;

```

**Output:**



**Question 16:** What are the top 5 Worst selling pizzas

```

SELECT

pt.name,

ROUND(SUM(od.quantity\*p.price), 4) AS total\_revenue

FROM

order\_details od

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

JOIN

pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id

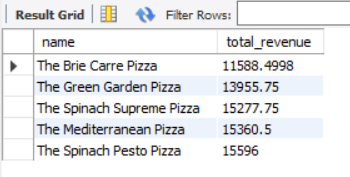
GROUP BY pt.name

ORDER BY total\_revenue ASC

LIMIT 5;

```

**Output:**



**Question 17:** Are there any pizzas we should take of the menu, or any promotions we could leverage?

```

SELECT

pt.name,

ROUND(SUM(od.quantity \* p.price), 4) AS sales

FROM

order\_details od

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

JOIN

pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id

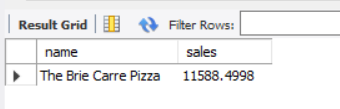
GROUP BY pt.name

ORDER BY SUM(od.quantity \* p.price) ASC

LIMIT 1;

```

**Output:**



**Question 18:** What's our average order value?

```

SELECT

ROUND(AVG(order\_total), 4) AS avg\_order\_value

FROM (

SELECT SUM(od.quantity \* p.price) AS order\_total

FROM order\_details od

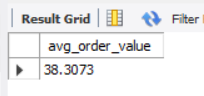
JOIN pizzas p ON od.pizza\_id = p.pizza\_id

GROUP BY od.order\_id

) AS order\_values;

```

**Output:**



**Question 19**: How much money did we make this year? Can we indentify any seasonality in the sales?

```

SELECT

ROUND(SUM(od.quantity \* p.price), 4) AS total\_money\_year

FROM

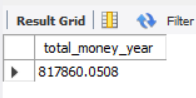
pizzas p

JOIN

order\_details od ON p.pizza\_id = od.pizza\_id;

```

**Output:**



**Question 20: What are the Monthly number of orders?**

```

SELECT

MONTHNAME(date) AS month,

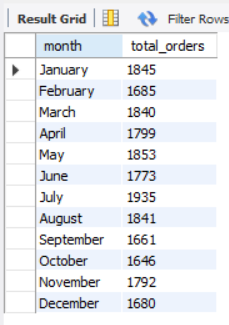
COUNT(DISTINCT order\_id) AS total\_orders

FROM orders

GROUP BY MONTH(date);

```

**Output:**



**Question 21:** What are Monthly sales?

```

SELECT

MONTHNAME(o.date) AS month,

ROUND(SUM(od.quantity \* p.price), 2) AS total\_sales

FROM

orders o

JOIN

order\_details od ON o.order\_id = od.order\_id

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

GROUP BY

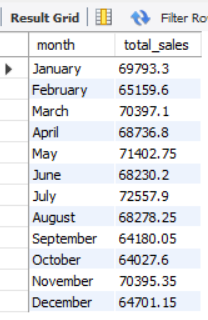
MONTH(o.date)

ORDER BY

MONTH(month);

```

**Output:**



**Question 22:** What are Weekly orders?

```

SELECT

DAYNAME(date) AS weekday,

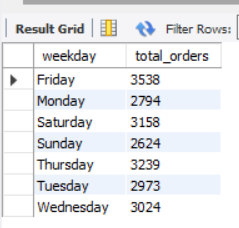
COUNT(DISTINCT order\_id) AS total\_orders

FROM orders

GROUP BY weekday;

```

**Output:**



**Question 23:** What are Weekly sales?

```

SELECT

WEEK(o.date) AS week,

ROUND(SUM(od.quantity \* p.price), 2) AS total\_sales

FROM

orders o

JOIN

order\_details od ON o.order\_id = od.order\_id

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

GROUP BY

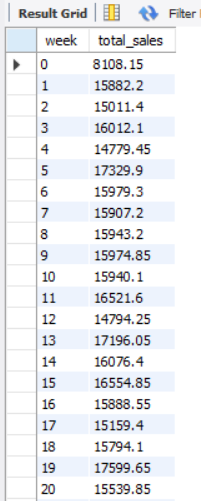
WEEK(o.date)

ORDER BY

week;

```

**Output:**



**Question 24:** What is Day of week order?

```

SELECT

DAY(date) AS day,

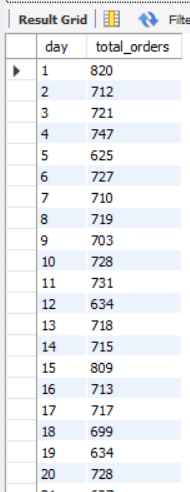
COUNT(DISTINCT order\_id) AS total\_orders

FROM orders

GROUP BY day;

```

**Output:**



**Question 25:** What are Day of week sales

```

SELECT

DAYOFWEEK(o.date) AS day\_of\_week,

ROUND(SUM(od.quantity \* p.price), 2) AS total\_sales

FROM

orders o

JOIN

order\_details od ON o.order\_id = od.order\_id

JOIN

pizzas p ON od.pizza\_id = p.pizza\_id

GROUP BY

DAYOFWEEK(o.date)

ORDER BY

total\_sales DESC;

```

**Output:**

