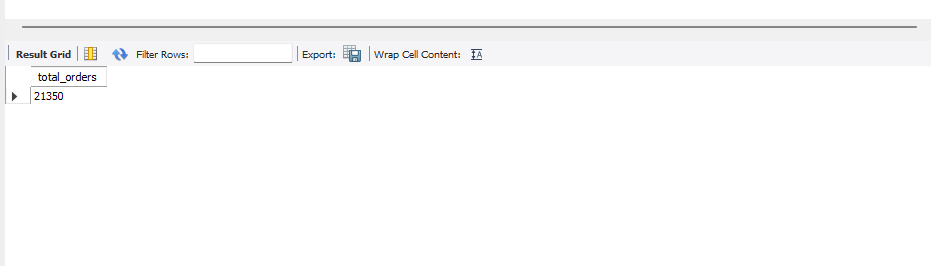
Pizza outlet analysis

**Basic Questions**

. -- Retrieve the total number of orders placed --

select count(order\_id) as total\_orders from orders;



-- Calculate the total revenue generated from pizza sales--

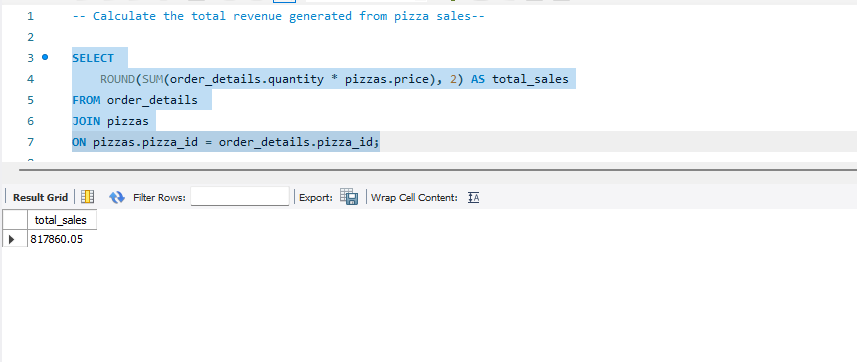
SELECT

ROUND(SUM(order\_details.quantity \* pizzas.price), 2) AS total\_sales

FROM order\_details

JOIN pizzas

ON pizzas.pizza\_id = order\_details.pizza\_id;



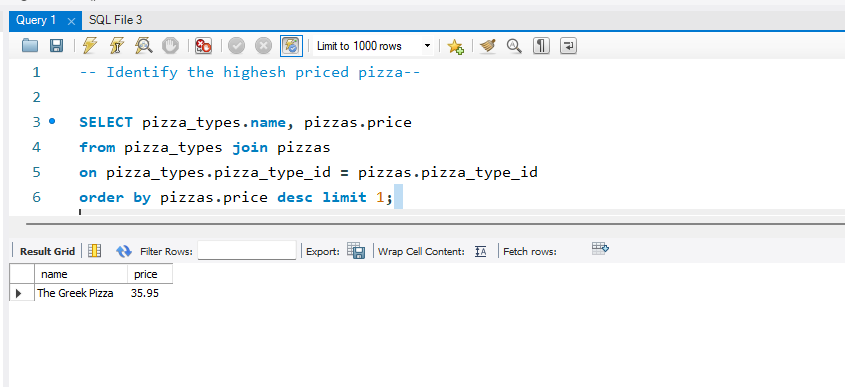
-- Identify the highesh priced pizza--

SELECT pizza\_types.name, pizzas.price

from pizza\_types join pizzas

on pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

order by pizzas.price desc limit 1;



-- Identify the most common pizza size ordered--

SELECT

pizzas.size,

COUNT(order\_details.order\_details\_id) AS order\_count

FROM

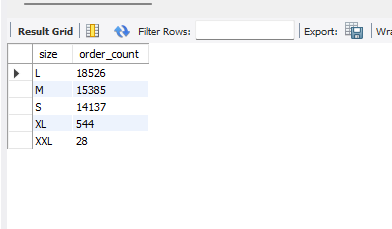
pizzas

JOIN

order\_details ON pizzas.pizza\_id = order\_details.pizza\_id

GROUP BY pizzas.size

ORDER BY order\_count DESC;



-- List the top 5 most ordered pizza types along with their quantity--

SELECT pizza\_types.name, SUM(order\_details.quantity) AS quantity

FROM pizza\_types

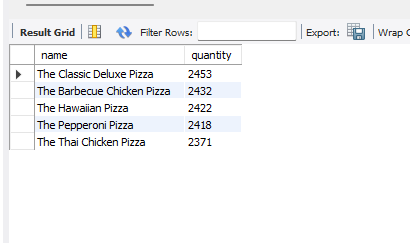
JOIN pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.name

ORDER BY quantity DESC

LIMIT 5;



**Intermediate question**

-- Join the necessary tables to find the total quantity of each pizza category ordered--

SELECT pizza\_types.category,

SUM(order\_details.quantity) AS quantity

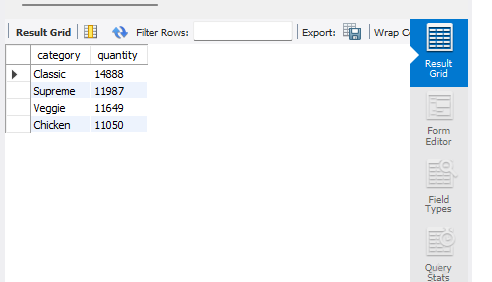
FROM pizza\_types

JOIN pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.category

ORDER BY quantity DESC;

****

-- Determine the distribution of orders by hour of the day--

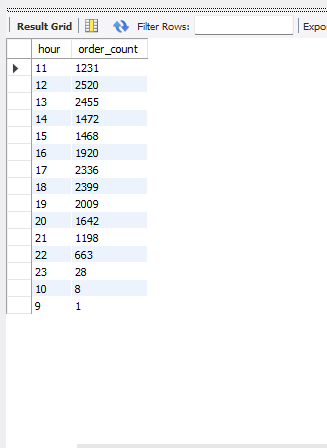
SELECT

HOUR(order\_time) AS hour, COUNT(order\_id) AS order\_count

FROM

orders

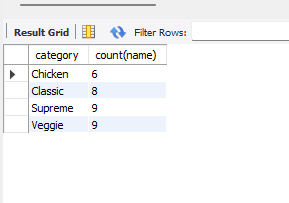
GROUP BY HOUR(order\_time);

****

-- Join relevant tables to find the category wise distribution of pizzas--

select category , count(name) from pizza\_types

group by category;

****

-- group the orders by date and calculate the average number of pizzas ordered per day--

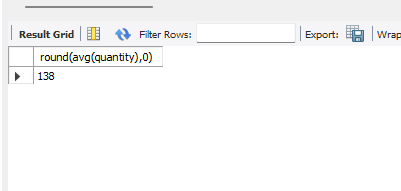
select round(avg(quantity),0) from

(select orders.order\_date, sum(order\_details.quantity) as quantity

from orders join order\_details

on orders.order\_id = order\_details.order\_id

group by orders.order\_date) as order\_quantity ;

****

SELECT

ROUND(AVG(quantity), 0) AS avg\_pizza\_ordered\_per\_day

FROM

(SELECT

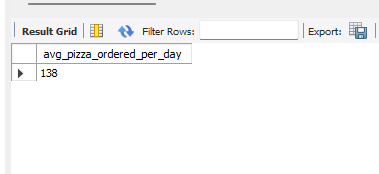
orders.order\_date, SUM(order\_details.quantity) AS quantity

FROM

orders

JOIN order\_details ON orders.order\_id = order\_details.order\_id

GROUP BY orders.order\_date) AS order\_quantity;

****

-- Determine the top 3 most ordered pizza types based on revenue -

SELECT pizza\_types.name,

SUM(order\_details.quantity \* pizzas.price) AS revenue

FROM pizza\_types

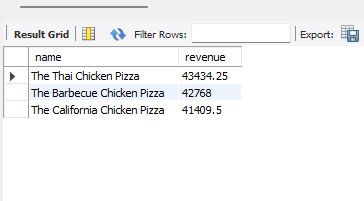
JOIN pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.name

ORDER BY revenue DESC

LIMIT 3;

****

**Advanced analysis**

-- Calculate the percentage contribution of each pizza type to total revenue --

SELECT pizza\_types.category,

ROUND(SUM(order\_details.quantity \* pizzas.price) /

(SELECT SUM(order\_details.quantity \* pizzas.price)

FROM order\_details

JOIN pizzas ON pizzas.pizza\_id = order\_details.pizza\_id) \* 100, 2) AS revenue

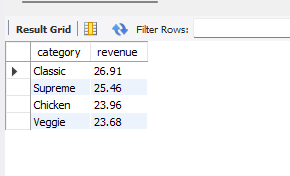
FROM pizza\_types

JOIN pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.category

ORDER BY revenue DESC;

****

-- analyze the cumulative revenue generated over time --

SELECT order\_date,

SUM(revenue) OVER (ORDER BY order\_date) AS revenue

FROM (

SELECT orders.order\_date,

SUM(order\_details.quantity \* pizzas.price) AS revenue

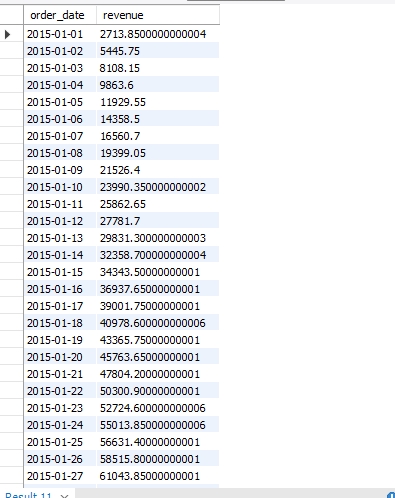
FROM order\_details

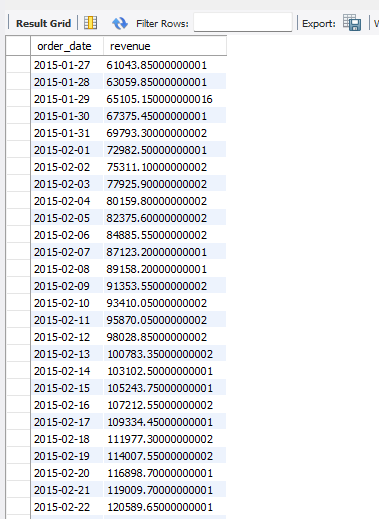
JOIN pizzas ON order\_details.pizza\_id = pizzas.pizza\_id

JOIN orders ON orders.order\_id = order\_details.order\_id

GROUP BY orders.order\_date

) AS sales;

****

****

-- Determine the top 3 most ordered pizza types based on revenue for each pizza category

SELECT name, revenue

FROM (

SELECT category, name, revenue,

RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS rn

FROM (

SELECT pizza\_types.category, pizza\_types.name,

SUM(order\_details.quantity \* pizzas.price) AS revenue

FROM pizza\_types

JOIN pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

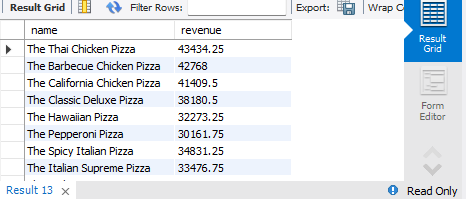
JOIN order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizza\_types.category, pizza\_types.name

) AS a

) AS b

WHERE rn <= 3;

****