**PIZZA SALES SQL QUERIES**

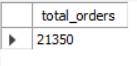
**A. Retrieve the total number of orders placed.**

**SELECT**

**COUNT(order\_id) AS total\_orders**

**FROM**

**orders;**

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**B. Calculate the total revenue generated from pizza sales.**

**SELECT**

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

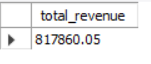
**2) AS total\_revenue**

**FROM**

**order\_details**

**JOIN**

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

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**C. Identify the highest-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;**

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**D. 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**

**LIMIT 1;**

****

**E. List the top 5 most ordered pizza types along with their quantities.**

**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**

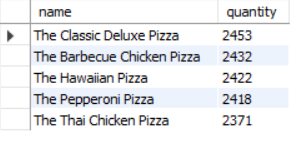
**JOIN**

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

**GROUP BY pizza\_types.name**

**ORDER BY quantity DESC**

**LIMIT 5;**

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**F. 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**

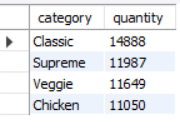
**JOIN**

**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;**

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**G. Determine the distribution of orders by hour of the day.**

**SELECT**

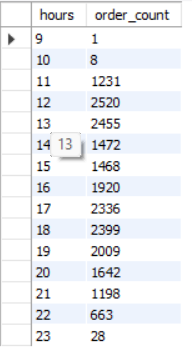
**HOUR(order\_time) AS hours, COUNT(order\_id) AS order\_count**

**FROM**

**orders AS order\_count**

**GROUP BY HOUR(order\_time)**

**ORDER BY hours;**

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**H. Find the category-wise distribution of pizzas.**

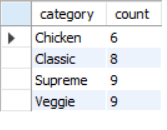
**SELECT**

**category, COUNT(name) AS count**

**FROM**

**pizza\_types**

**GROUP BY category;**

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**I. Group the orders by date and calculate the average number of pizzas ordered per day.**

**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;**

****

**J. 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 pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id**

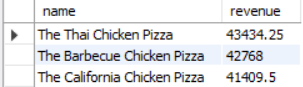
**JOIN**

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

**GROUP BY pizza\_types.name**

**ORDER BY revenue DESC**

**LIMIT 3;**

****

**K. Calculate the percentage contribution of each pizza type to total revenue.**

**SELECT**

**pizza\_types.category,**

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

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

**2) AS total\_revenue**

**FROM**

**order\_details**

**JOIN**

**pizzas ON pizzas.pizza\_id = order\_details.pizza\_id) \* 100,**

**2) AS revenue**

**FROM**

**pizza\_types**

**JOIN**

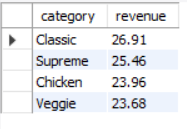
**pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id**

**JOIN**

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

**GROUP BY pizza\_types.category**

**ORDER BY revenue DESC;**

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**L. Analyse the cumulative revenue generated over time.**

**select order\_date,round(revenue,2) as revenue,round(sum(revenue) over (order by order\_date),2) as cumulative\_revenue**

**from**

**(select orders.order\_date,sum(order\_details.quantity\*pizzas.price) as revenue**

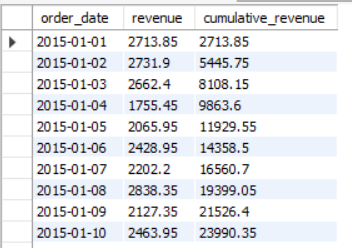
**from order\_details join pizzas**

**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;**

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**M. Determine the top 3 most ordered pizza types based on revenue for each pizza category.**

**select name,revenue,rn 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**

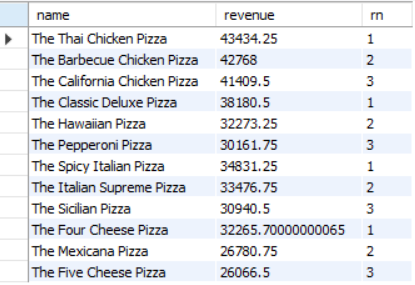
**on pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id**

**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;**

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