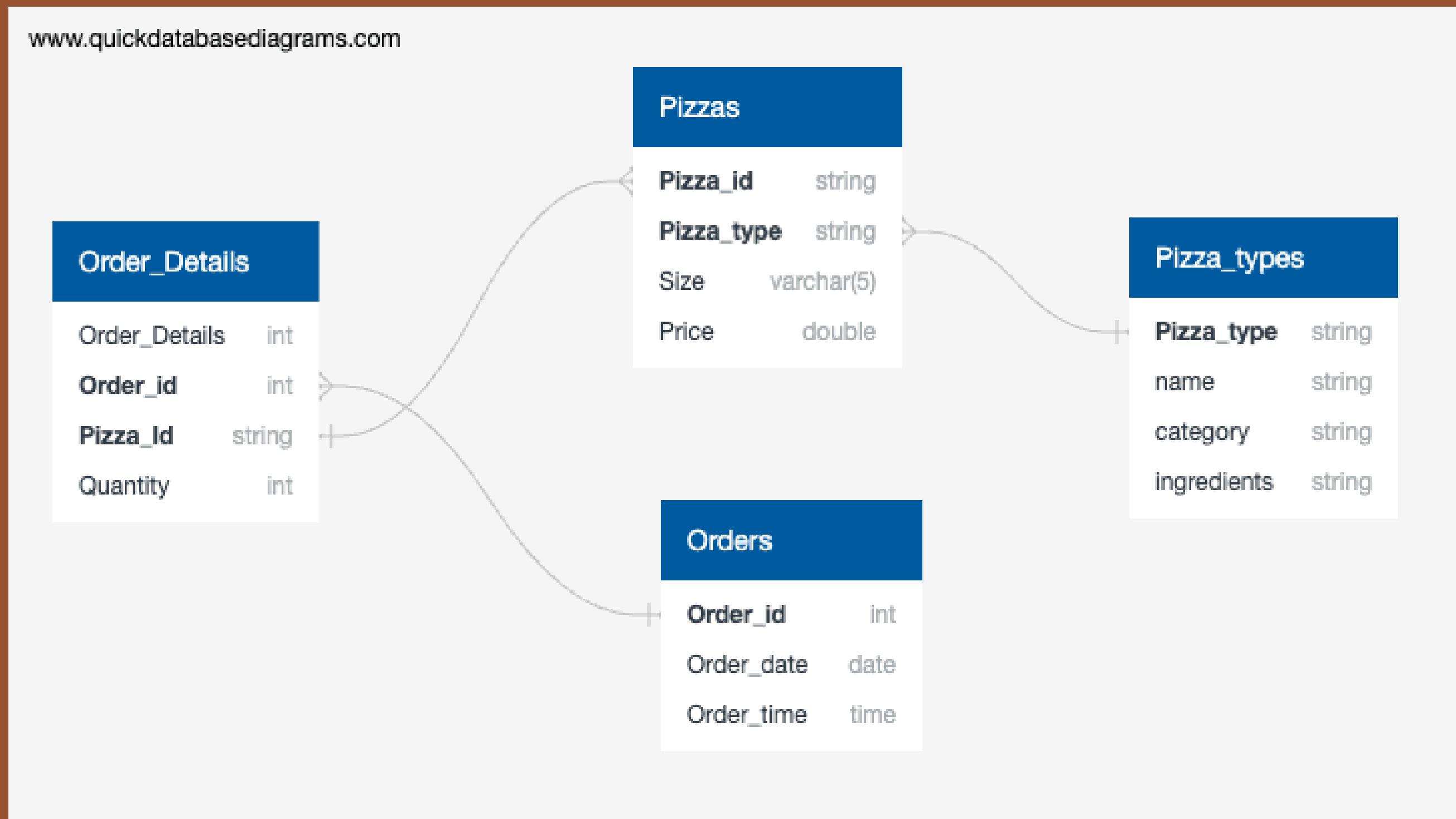


Pizza Sales Report

Using *SQL*



Table Relationship





Retrieve the total number of orders placed

```
1  -- Retrieve the total number of orders placed  
2  
3 • select count(order_id) as total_orders from orders;
```

total_orders
21350

Calculate the total revenue generated from pizza sales



```
1 -- Calculate the total revenue generated from pizza sales
2
3 • SELECT
4     ROUND(SUM(order_detials.quantity * pizzas.price),
5             2) AS total_sales
6 FROM
7     order_detials
8 JOIN
9     pizzas ON pizzas.pizza_id = order_detials.pizza_id;
```

Result Grid	
	total_sales
	817860.05

Identify the highest-priced pizza



```
1  -- Identify the highest-price pizza
2
3 • SELECT
4      pizza_types.name, pizzas.price
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9  ORDER BY pizzas.price DESC
10 LIMIT 1;
```

	name	price
	The Greek Pizza	35.95

Identify the most common pizza size ordered



```
1  -- Identify the most common pizza size ordered
2
3 • SELECT
4      pizzas.size,
5      COUNT(order_detials.order_details_id) AS order_count
6  FROM
7      pizzas
8      JOIN
9      order_detials ON pizzas.pizza_id = order_detials.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC
12 LIMIT 1;
```

	size	order_count
	L	18526

List the 5 most ordered pizza types along with their quantity



```
1 -- List the 5 most ordered pizza types along with their quantity
2
3 SELECT
4     pizza_types.name, SUM(order_detials.quantity) AS quantity
5 FROM
6     pizza_types
7     JOIN
8         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9     JOIN
10        order_detials ON order_detials.pizza_id = pizzas.pizza_id
11 GROUP BY pizza_types.name
12 ORDER BY quantity DESC
13 LIMIT 5;
```

	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

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



```
1 -- Join the necessary tables to find the total quantity of each pizza category ordered.  
2  
3     SELECT  
4         pizza_types.category,  
5             SUM(order_detials.quantity) AS quantity  
6     FROM  
7         pizza_types  
8             JOIN  
9             pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
10            JOIN  
11            order_detials ON order_detials.pizza_id = pizzas.pizza_id  
12     GROUP BY pizza_types.category  
13     ORDER BY quantity DESC;  
14
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day



```
1  -- Determine the distribution of orders by hour of the day
2
3 • select hour(order_time) as hour, count(order_id) as order_count from orders
4  group by hour;
```

hour	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

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



```
1 -- Join relevant tables to find the category-wise distribution of
2
3 • select category, count(name) from pizza_types group by category;
```

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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



```
-- Group the orders by date and calculate the average number of pizza

SELECT
    ROUND(AVG(quantity), 0) as Avg_Pizza_ordered_per_day
FROM
    (SELECT
        orders.order_date, SUM(order_detials.quantity) AS quantity
    FROM
        orders
    JOIN order_detials ON orders.order_id = order_detials.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

Avg_Pizza_ordered_per_d...
138

Determine the top 3 pizza types based on revenue



```
1 -- Determine the top 3 pizza types based on revenue
2
3 • select pizza_types.name,
4   sum(order_detials.quantity * pizzas.price) as revenue
5   from pizza_types join pizzas
6   on pizzas.pizza_type_id = pizza_types.pizza_type_id
7   join order_detials
8   on order_detials.pizza_id = pizzas.pizza_id
9   group by pizza_types.name order by revenue desc limit 3;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

Calculate the percentage contribution of pizza type to total revenue



```
1  -- Calculate the percentage contribution of pizza type to total revenue
2
3 * select pizza_types.category,
4   round((sum(order_detials.quantity*pizzas.price)/ (SELECT
5     ROUND(SUM(order_detials.quantity * pizzas.price),
6       2) AS total_sales
7
8   FROM
9     order_detials
10    JOIN
11      pizzas ON pizzas.pizza_id = order_detials.pizza_id ))*100, 2) as revenue
12   from pizza_types join pizzas
13   on pizza_types.pizza_type_id = pizzas.pizza_type_id
14   join order_detials
15   on order_detials.pizza_id = pizzas.pizza_id
16   group by pizza_types.category order by revenue desc;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Analyze the cumulative revenue generated over time



```
1  -- Analyze the cumulative revenue generated over time
2
3 •  select order_date,
4    sum(revenue) over(order by order_date) as cum_revenue
5
6 ⊖ (select orders.order_date,
7    sum(order_detials.quantity*pizzas.price) as revenue
8    from order_detials join pizzas
9    on order_detials.pizza_id = pizzas.pizza_id
10   join orders on
11     orders.order_id = order_detials.order_id
12   group by orders.order_date) as sales;
```

order...	^	cum_revenue
	2015-01-01	2713.850000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4

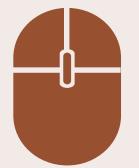
Determine the top 3 most ordered pizza types based on revenue for each pizza category



```
2
3 *  select name, revenue from
4   (select category, name, revenue,
5    rank() over(partition by category order by revenue desc) as rn from
6   (select pizza_types.category, pizza_types.name,
7    sum((order_detials.quantity) * pizzas.price) as revenue
8    from pizza_types join pizzas
9    on pizza_types.pizza_type_id=pizzas.pizza_type_id
10   join order_detials
11   on order_detials.pizza_id = pizzas.pizza_id
12   group by pizza_types.category, pizza_types.name) as a) as b
13  where rn<=3;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.7000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

THANK YOU



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