
Hira's Borcelle
PIZZA RESTAURANT
20% OFF
Delicious Pizza
For EveryOne
PIZZA RECIPE
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Hira's Borcelle

PIZZA RESTAURANT

# Hello !

We are Hira’s Borcelle Pizza Restaurant
Serving Delicious Pizza via the food truck
Way .We are ready to go around to deliver
And serve pizza for your lovers

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# Basic:

## 1)Retrieve the total number of orders placed.

```
SELECT
    *
FROM
    orders;
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```

Result Grid | Filter Rows:

| total_orders |
| --- |
| 21350 |

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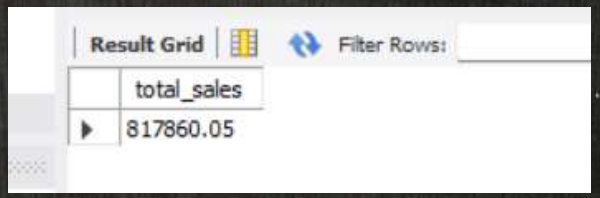
## Basic:

**2) 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
```



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## Basic:

### 3) Identify the highest-priced pizza.

```sql
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;
```

Result Grid | Filter Rows:

| name | price |
|---|---|
| The Greek Pizza | 35.95 |

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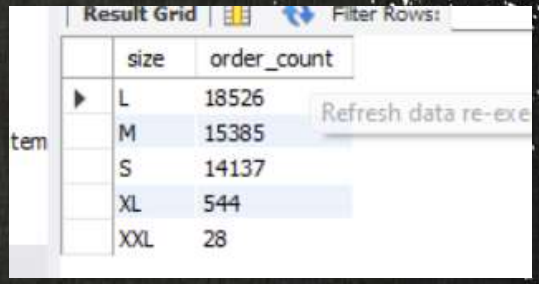
## Basic:

### 4) Identify the most common pizza size ordered..

```sql
SELECT
    quantity, COUNT(order_details_id)
FROM
    order_details
GROUP BY quantity;

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;
```



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## Basic:

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

```sql
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;
```

| name | quantity |
|---|---|
| The Classic Deluxe Pizza | 2453 |
| The Barbecue Chicken Pizza | 2432 |
| The Hawaiian Pizza | 2422 |
| The Pepperoni Pizza | 2418 |
| The Thai Chicken Pizza | 2371 |

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## Intermediate:

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

```
4 •  select pizza_types.category,
5    sum(order_details.quantity) as quantity
6    from pizza_types join pizzas
7    on pizza_types.pizza_type_id = pizzas.pizza_type_id
8    join order_details
9    on order_details.pizza_id = pizzas.pizza_id
10   group by pizza_types.category order by quantity desc ;
```

| category | quantity |
|---|---|
| Classic | 14888 |
| Supreme | 11987 |
| Veggie | 11649 |
| Chicken | 11050 |

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## Intermediate:

**7) Determine the distribution of orders by hour of the day.**

```
select * from orders;

select hour(order_time) as hour , count(order_id) as order_count from orders
group by hour(order_time);
```

| hour | order_count |
|---|---|
| 11 | 1231 |
| 12 | 2520 |
| 13 | 2455 |
| 14 | 1472 |
| 15 | 1468 |

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## Intermediate:

**8 ) Join relevant tables to find the category-wise distribution of pizzas.**

```
select category , count(name) from pizza_types
group by category ;
```

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

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## Intermediate:

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

```
5  •  SELECT
6         ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
7     FROM
8         (SELECT
9             orders.order_date, SUM(order_details.quantity) AS quantity
10        FROM
11            orders
12        JOIN order_details ON orders.order_id = order_details.order_id
13        GROUP BY orders.order_date) AS order_quantity;
14
```

| avg_pizza_ordered_per_day |
| --- |
| 138 |

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## Intermediate:

**10) Determine the top 3 most ordered pizza types based on revenue.**

```sql
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;
```

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

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## Advanced:

**11 ) 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_sales
from order_details join pizzas on pizzas.pizza_id = order_details.pizza_id) *100,2) 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.category order by revenue desc;
```

| category | revenue |
|---|---|
| Classic | 26.91 |
| Supreme | 25.46 |
| Chicken | 23.96 |
| Veggie | 23.68 |

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## Advanced:

**12 ) Analyze the cumulative revenue generated over time.**

```
select order_date ,
sum(revenue) over (order by order_date) as cum_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 ;
```

| order_date | cum_revenue |
|---|---|
| 2015-01-01 | 2713.8500000000004 |
| 2015-01-02 | 5445.75 |
| 2015-01-03 | 8108.15 |
| 2015-01-04 | 9863.6 |
| 2015-01-05 | 11929.55 |

Result 2

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## Advanced:

**13) 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;
```

| 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 |

Result 3


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Thank you !!!