# PIZZA SALES

# SQL PROJECT

## PIZZA

AANCHAL
& CO.

# PIZZA SALES

## TOTAL NUMBER OF ORDERS PLACED

```
2
3 •  select count(order_id) as total_orders from orders;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| total_orders |
| --- |
| 21350 |

**21350 ORDERS WERE PLACED**

# PIZZA SALES

## TOTAL REVENUE GENERATED FROM PIZZA SALES

```sql
-- calculate the total revenue generated from pizza sales

SELECT
    ROUND(SUM(od.quantity * pzs.price), 0) AS total_revenue
FROM
    order_details od
        JOIN
    pizzas pzs ON od.pizza_id = pzs.pizza_id
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| total_revenue |
| --- |
| 817860 |

# PIZZA SALES

## AVERAGE AMOUNT SPENT PER ORDER

```
1   -- average amount spend per order
2
3 • select (sum(order_details.quantity*pizzas.price)/count(distinct(order_id))) as avg_order_value
4   from order_details join pizzas
5   on order_details.pizza_id=pizzas.pizza_id
6
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| avg_order_value |
| --- |
| 38.307262295081635 |

# PIZZA SALES

## TOTAL NUMBER OF PIZZA SOLD

```
1   -- total number of pizzas sold
2 • select sum(quantity) as total_pizza_sold from order_details
3
4
5
6
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| total_pizza_sold |
| --- |
| 49574 |

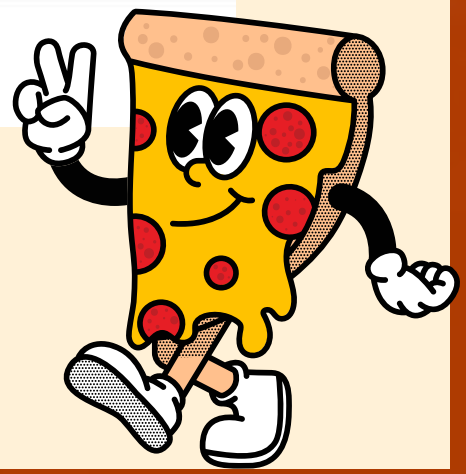
# PIZZA SALES

## AVERAGE NUMBER OF PIZZAS SOLD PER ORDER

```
1 •  SELECT
2        (SELECT SUM(quantity) AS total_pizza_sold
3         FROM order_details) /
4        (SELECT COUNT(DISTINCT order_id)
5         FROM order_details) AS avg_pizza_per_order;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| avg_pizza_per_order |
| --- |
| 2.3220 |



# PIZZA SALES


## WEEKLY TREND FOR TOTAL ORDERS

```
2 •  SELECT
3        DAYNAME(orders.order_date) AS week,
4        COUNT(DISTINCT order_details.order_id) AS total_orders
5    FROM
6        orders
7            JOIN
8        order_details ON orders.order_id = order_details.order_id
9    GROUP BY week
10   ORDER BY FIELD(week,
11           'Sunday','Monday','Tuesday','Wednesday','Thursday','Friday','Saturday');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| week | total_orders |
|---|---|
| Sunday | 2624 |
| Monday | 2794 |
| Tuesday | 2973 |
| Wednesday | 3024 |
| Thursday | 3239 |
| Friday | 3538 |
| Saturday | 3158 |

Result 6

# PIZZA SALES

## MONTHLY TREND FOR TOTAL ORDERS

```
2 •  SELECT
3        MONTHNAME(order_date) AS month,
4        COUNT(order_id) AS total_orders
5    FROM orders
6    GROUP BY month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| month | total_orders |
|---|---|
| January | 1845 |
| February | 1685 |
| March | 1840 |
| April | 1799 |
| May | 1853 |
| June | 1773 |
| July | 1935 |
| August | 1841 |
| September | 1661 |
| October | 1646 |
| November | 1792 |
| December | 1680 |

# PIZZA SALES

## DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

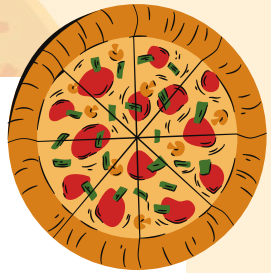
```
3 •  select count(order_id) as order_count,hour(order_time) from orders
4    group by hour(order_time)
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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

# PIZZA SALES

## HIGHEST PRICED PIZZA



```sql
-- identify the highest priced pizza

SELECT
    MAX(pizzas.price) AS price, pizza_types.name
FROM
    pizzas
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.name
ORDER BY price DESC
LIMIT 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

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

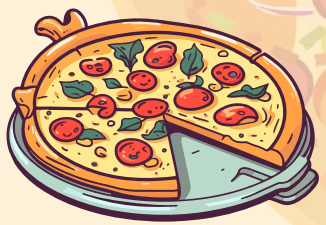
# PIZZA SALES

## MOST COMMON PIZZA SIZE ORDERED

```
2 • SELECT
3       pizzas.size,
4       COUNT(order_details.order_details_id) AS total_number_of_pizza_ordered
5   FROM
6       pizzas
7           JOIN
8       order_details ON pizzas.pizza_id = order_details.pizza_id
9   GROUP BY pizzas.size
10  ORDER BY total_number_of_pizza_ordered DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| size | total_number_of_pizza_c |
|---|---|
| L | 18526 |
| M | 15385 |
| S | 14137 |



| | |
|---|---|
| M | 15385 |
| L | 18526 |
| S | 14137 |
| XL | 544 |
| XXL | 28 |

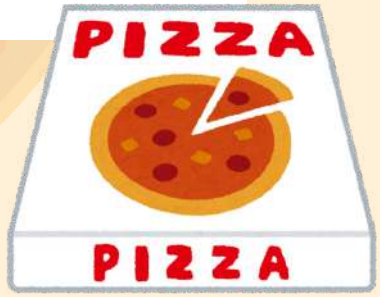
# PIZZA SALES

## TOP 5 MOST ORDERED PIZZA BASED ON QUANTITY

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

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| name | total_quantity_ordered |
|---|---|
| The Classic Deluxe Pi... | 2453 |
| The Barbecue Chicke... | 2432 |
| The Hawaiian Pizza | 2422 |
| The Pepperoni Pizza | 2418 |
| The Thai Chicken Pizza | 2371 |



# PIZZA SALES

## TOTAL QUANTITY ORDERED BASED ON EACH PIZZA CATEGORY

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

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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

# PIZZA SALES

## DISTRIBUTION OF PIZZAS IN EACH CATEGORY

```
3 •  SELECT
4        COUNT(name), category
5    FROM
6        pizza_types
7    GROUP BY category
```

Result Grid | Filter Rows: | Export: | Cell Content:

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

# PIZZA SALES

## PERCENTAGE OF SALES OF PIZZA BY SIZE

```sql
-- percentage of sales by size
select x.size, x.price,
concat(round(x.price/sum(x.price) over ()*100,2),"%") as percentage
from
    (select pz.size,sum(od.quantity*pz.price) as price
     from pizzas pz join order_details od
     on pz.pizza_id=od.pizza_id
     group by pz.size)x
order by percentage desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| size | price | percentage |
|---|---|---|
| L | 375318.7000000087 | 45.89% |
| M | 249382.25 | 30.49% |
| S | 178076.49999999843 | 21.77% |
| XL | 14076 | 1.72% |
| XXL | 1006.6000000000005 | 0.12% |

# PIZZA SALES

## AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
2
3 •  select avg(x.total) from
4    (select orders.order_date,sum(order_details.quantity) as total
5    from orders join order_details
6    on orders.order_id=order_details.order_id
7    group by orders.order_date) x
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| avg(x.total) |
| --- |
| 138.4749 |

# PIZZA SALES

## TOP 3 MOST ORDERED PIZZA BASED ON REVENUE

```
3 •  SELECT pt.name,
4        ROUND(sum(od.quantity * pzs.price), 0) AS revenue
5    FROM
6        pizza_types pt join pizzas pzs
7        on pt.pizza_type_id=pzs.pizza_type_id join order_details od
8    ON od.pizza_id = pzs.pizza_id
9    group by pt.name
10   order by revenue desc
11   limit 3
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| name | revenue |
|---|---|
| The Thai Chicken Pizza | 43434 |
| The Barbecue Chicke... | 42768 |
| The California Chicke... | 41410 |

# PIZZA SALES

## BOTTOM 3 LEAST ORDERED PIZZA BASED ON REVENUE

```
3 •  SELECT pt.name,
4        ROUND(sum(od.quantity * pzs.price), 0) AS revenue
5    FROM
6        pizza_types pt join pizzas pzs
7        on pt.pizza_type_id=pzs.pizza_type_id join order_details od
8    ON od.pizza_id = pzs.pizza_id
9    group by pt.name
10   order by revenue
11   limit 3
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| name | revenue |
|---|---|
| The Brie Carre Pizza | 11588 |
| The Green Garden Pizza | 13956 |
| The Spinach Supreme... | 15278 |

# PIZZA SALES

## TOP 3 MOST ORDERED PIZZA BASED ON QUANTITY

```
3 •  SELECT pt.name,
4        ROUND(sum(od.quantity), 0) AS total_quantity
5    FROM
6        pizza_types pt join pizzas pzs
7        on pt.pizza_type_id=pzs.pizza_type_id join order_details od
8    ON od.pizza_id = pzs.pizza_id
9    group by pt.name
10   order by total_quantity desc
11   limit 3
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| name | total_quantity |
|---|---|
| The Classic Deluxe Pi... | 2453 |
| The Barbecue Chicke... | 2432 |
| The Hawaiian Pizza | 2422 |

# PIZZA SALES

## BOTTOM 3 LEAST ORDERED PIZZA BASED ON QUANTITY

```
3 •  SELECT pt.name,
4        ROUND(sum(od.quantity), 0) AS total_quantity
5    FROM
6        pizza_types pt join pizzas pzs
7        on pt.pizza_type_id=pzs.pizza_type_id join order_details od
8    ON od.pizza_id = pzs.pizza_id
9    group by pt.name
10   order by total_quantity
11   limit 3
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| name | total_quantity |
|---|---|
| The Brie Carre Pizza | 490 |
| The Mediterranean Pi... | 934 |
| The Calabrese Pizza | 937 |

# PIZZA SALES

## PERCENTAGE DISTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
2  select x.category, x.revenue,concat(round(x.revenue/sum(x.revenue) over ()*100,2),"%")
3  (select pizza_types.category, sum(order_details.quantity*pizzas.price) as revenue
4  from order_details join pizzas
5  on order_details.pizza_id=pizzas.pizza_id
6  join pizza_types
7  on pizza_types.pizza_type_id=pizzas.pizza_type_id
8  group by pizza_types.category)x
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| category | revenue | percentage |
|---|---|---|
| Classic | 220053.1000000001 | 26.91% |
| Veggie | 193690.45000000298 | 23.68% |
| Supreme | 208196.99999999822 | 25.46% |
| Chicken | 195919.5 | 23.96% |

# PIZZA SALES

## CUMMULATIVE REVENUE GENERATED OVER TIME

```
2 •  select sum(x.revenue) over(order by x.order_date),x.order_date from
3    (select sum(order_details.quantity*pizzas.price) as revenue, orders.order_date
4    from order_details join pizzas
5    on order_details.pizza_id=pizzas.pizza_id
6    join orders
7    on orders.order_id=order_details.order_id
8    group by orders.order_date
9    order by orders.order_date)x
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| sum(x.revenue) over(order by x.order_date) | order_date |
|---|---|
| 47804.20000000001 | 2015-01-21 |
| 50300.90000000001 | 2015-01-22 |
| 52724.600000000006 | 2015-01-23 |
| 55013.850000000006 | 2015-01-24 |
| 56631.40000000001 | 2015-01-25 |
| 58515.80000000001 | 2015-01-26 |

| sum(x.revenue) over(order by x.order_date) | order_date |
|---|---|
| 2713.8500000000004 | 2015-01-01 |
| 5445.75 | 2015-01-02 |
| 8108.15 | 2015-01-03 |
| 9863.6 | 2015-01-04 |
| 11929.55 | 2015-01-05 |
| 14358.5 | 2015-01-06 |
| 16560.7 | 2015-01-07 |
| 19399.05 | 2015-01-08 |
| 21526.4 | 2015-01-09 |
| 23990.350000000002 | 2015-01-10 |
| 25862.65 | 2015-01-11 |
| 27781.7 | 2015-01-12 |
| 29831.300000000003 | 2015-01-13 |

# PIZZA SALES

## TOP 3 MOST ORDERED PIZZAS TYPES BASED ON REVENUE FOR EACH PIZA CATEGORY

```
2 •  select y.* from
3    (select x.category,x.name,x.revenue ,
4    rank() over(partition by x.category order by x.revenue desc ) rn from
5    (select pt.category,pt.name,
6    sum(od.quantity*pz.price) as revenue
7    from order_details od join pizzas pz
8    on od.pizza_id=pz.pizza_id
9    join pizza_types pt
0    on pt.pizza_type_id=pz.pizza_type_id
1    group by pt.category,pt.name)x)y
2    where rn<=3
```

| category | name | revenue | rn |
|---|---|---|---|
| Chicken | The Thai Chicken Pizza | 43434.25 | 1 |
| Chicken | The Barbecue Chicke... | 42768 | 2 |
| Chicken | The California Chicke... | 41409.5 | 3 |
| Chicken | The Southwest Chicke... | 34705.75 | 4 |
| Chicken | The Chicken Alfredo P... | 16900.25 | 5 |
| Chicken | The Chicken Pesto Pizza | 16701.75 | 6 |
| Classic | The Classic Deluxe Pi... | 38180.5 | 1 |
| Classic | The Hawaiian Pizza | 32273.25 | 2 |
| Classic | The Pepperoni Pizza | 30161.75 | 3 |
| Classic | The Greek Pizza | 28454.100000000013 | 4 |
| Classic | The Italian Capocollo ... | 25094 | 5 |
| Classic | The Napolitana Pizza | 24087 | 6 |
| Classic | The Big Meat Pizza | 22968 | 7 |
| Classic | The Pepperoni, Mushr... | 18834.5 | 8 |

| category | name | revenue | rn |
|---|---|---|---|
| Supreme | The Spicy Italian Pizza | 34831.25 | 1 |
| Supreme | The Italian Supreme ... | 33476.75 | 2 |
| Supreme | The Sicilian Pizza | 30940.5 | 3 |
| Supreme | The Pepper Salami Pi... | 25529 | 4 |
| Supreme | The Prosciutto and Ar... | 24193.25 | 5 |
| Supreme | The Soppressata Pizza | 16425.75 | 6 |
| Supreme | The Calabrese Pizza | 15934.25 | 7 |
| Supreme | The Spinach Supreme... | 15277.75 | 8 |
| Supreme | The Brie Carre Pizza | 11588.4999999999 | 9 |
| Veggie | The Four Cheese Pizza | 32265.70000000065 | 1 |
| Veggie | The Mexicana Pizza | 26780.75 | 2 |
| Veggie | The Five Cheese Pizza | 26066.5 | 3 |
| Veggie | The Vegetables + Ve... | 24374.75 | 4 |
| Veggie | The Spinach and Feta... | 23271.25 | 5 |
| Veggie | The Italian Vegetable | 16019.25 | 6 |

# THANK YOU!

HAPPY EATING:)