PIZZA SALES
REPORT

PANDA PIZZAS
2015–16

AGENDA

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.

- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Retrieve the total number of orders placed.

QUERY

```sql
1  -- Q1 Retrieve the total number of orders placed.
2  SELECT
3      COUNT(order_id) AS total_orders
4  FROM
5      orders;
```

RESULT

total_orders
21350

Calculate the total revenue generated from pizza sales.

QUERY

```sql
1  -- Q2 Calculate the total revenue generated from pizza sales.
2  SELECT
3      ROUND(SUM(order_details.quantity * pizzas.price),
4                  2)
5  FROM
6      order_details
7          JOIN
8      pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

RESULT

Result Grid | | | Filt

	Totalrevenue
▶	817860.05

Identify the highest-priced pizza.

QUERY

```sql
1  -- Q3 Identify the highest-priced pizza
2  SELECT
3      pizza_types.name, pizzas.size, pizzas.price
4  FROM
5      pizzas
6          JOIN
7      pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
8  ORDER BY pizzas.price DESC
9  LIMIT 1;
```

RESULT

Result Grid		Filter Rows:

| name	size	price
The Greek Pizza	XXL	35.95

Identify the most common pizza size ordered.

QUERY

```sql
1    -- Q4 Identify the most common pizza size ordered.
2    SELECT
3        pizzas.size,
4        COUNT(order_details.order_details_id) AS order_count
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 order_count DESC;
```

RESULT

size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28
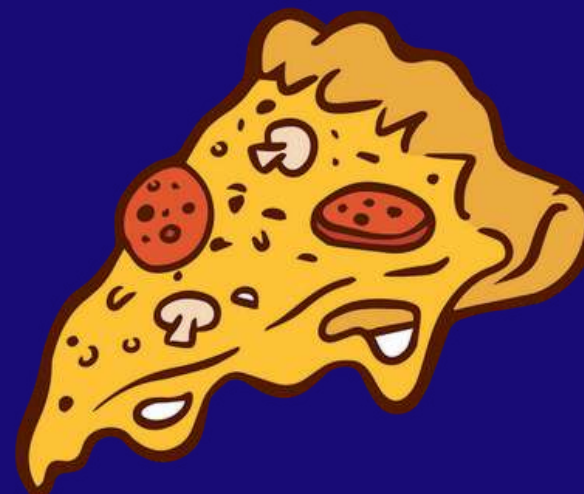
List the top 5 most ordered pizza types along with their quantities

QUERY

```sql
1    -- Q5 List the top 5 most ordered pizza types along with their quantiti
2
3    SELECT
4        pizza_types.name, SUM(order_details.quantity) AS orderpizza
5    FROM
6        order_details
7            JOIN
8        pizzas ON order_details.pizza_id = pizzas.pizza_id
9            JOIN
10       pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
11   GROUP BY pizza_types.name
12   ORDER BY orderpizza DESC
13   LIMIT 5;
```

RESULT

name	orderpizza
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.

QUERY

```sql
1    -- Q6 Join the necessary tables to find the total quantity of each
2
3  • SELECT
4        pizza_types.category, SUM(order_details.quantity) AS quant
5    FROM
6        pizza_types
7            JOIN
8        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9            JOIN
10       order_details ON pizzas.pizza_id = order_details.pizza_id
11   GROUP BY pizza_types.category
12   ORDER BY quant DESC;
```

RESULT

Result Grid | Filter Ro

category	quant
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day.

QUERY

```sql
1    -- Q7 Determine the distribution of order
2 •  SELECT
3        HOUR(order_time), COUNT(order_id)
4    FROM
5        orders
6    GROUP BY HOUR(order_time);
```

RESULT

| HOUR(order_time)	COUNT(order_id)
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

QUERY

```sql
1  -- Q8 Join relevant tables to
2  SELECT
3      category, COUNT(name)
4  FROM
5      pizza_types
6  GROUP BY category;
```

RESULT

category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9
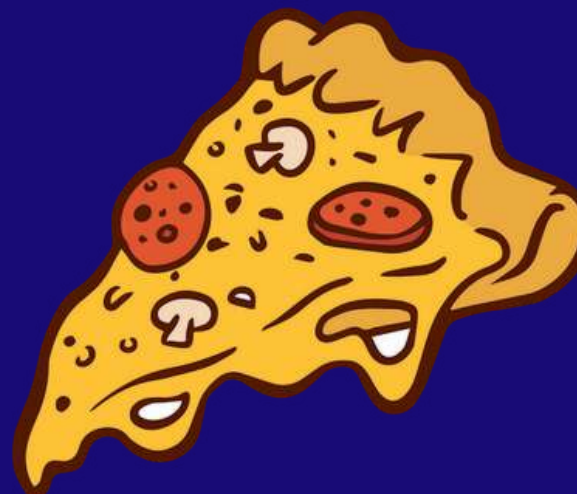
Group the orders by date and calculate the average number of pizzas ordered per day.

QUERY

```sql
1    -- Q9 Group the orders by date and calculate the average number of pizz
2
3    SELECT
4        ROUND(AVG(quantity), 0)
5    FROM
6        (SELECT
7            orders.order_date, SUM(order_details.quantity) AS quantity
8        FROM
9            orders
10       JOIN order_details ON orders.order_id = order_details.order_id
11       GROUP BY orders.order_date) AS order_quantity;
```

RESULT

Result Grid

perdavg
138

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

QUERY

```sql
1    -- Q10 Determine the top 3 most ordered pizza types based on revenue.
2
3 ●  SELECT
4        pizza_types.name,
5        SUM(pizzas.price * order_details.quantity) AS revenue
6    FROM
7        pizzas
8            JOIN
9        pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
10           JOIN
11       order_details ON pizzas.pizza_id = order_details.pizza_id
12   GROUP BY pizza_types.name
13   ORDER BY revenue DESC
14   LIMIT 3;
```

RESULT

Result Grid		
name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
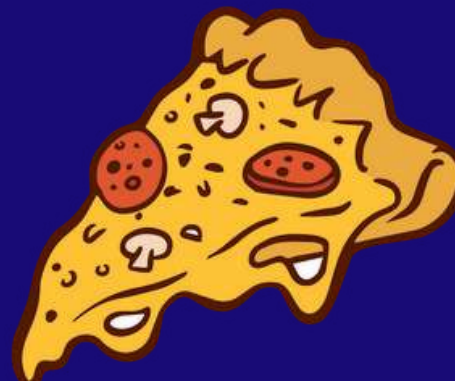
Calculate the percentage contribution of each pizza type to total revenue.

QUERY

```sql
1    -- Q11 Calculate the percentage contribution of each pizza type to total revenue.
2  • SELECT
3        pizza_types.category,
4        round((SUM(pizzas.price * order_details.quantity) / (SELECT
5                    ROUND(SUM(order_details.quantity * pizzas.price),
6                            2)
7            FROM
8                    order_details
9                        JOIN
10                   pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100,2) AS perc
11 FROM
12     pizzas
13         JOIN
14     pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
15         JOIN
16     order_details ON pizzas.pizza_id = order_details.pizza_id
17 GROUP BY pizza_types.category
18 ORDER BY perc DESC
19 ;
```

RESULT

category	perc
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Analyze the cumulative revenue generated over time.

QUERY

```sql
3  SELECT
4    order_date,
5    ROUND(sum(revenue) over(order by order_date),1) as cumrev
6  FROM
7  (SELECT
8    orders.order_date,
9    sum(order_details.quantity*pizzas.price) as revenue
10  FROM
11  orders JOIN order_details
12  ON orders.order_id=order_details.order_id
13  JOIN pizzas
14  ON order_details.pizza_id=pizzas.pizza_id
15  group by orders.order_date) as sales;
```

RESULT

Result Grid	Filter Rows:
order_date	cumrev
2015-01-01	2713.9
2015-01-02	5445.8
2015-01-03	8108.2
2015-01-04	9863.6
2015-01-05	11929.6
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399
2015-01-09	21526.4
2015-01-10	23990.4
2015-01-11	25862.6
2015-01-12	27781.7

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

QUERY

```sql
1    -- Q13 Determine the top 3 most ordered pizza types based on revenue for each pizza category.
2
3  • SELECT
4    category, name, rev
5    FROM
6    (SELECT
7    category, name, rev,
8    rank() over(partition by category order by rev DESC) as rn
9    FROM
10   (SELECT
11   pizza_types.category, pizza_types.name, ROUND(sum(pizzas.price*order_details.quantity),0) as rev
12   FROM
13   pizza_types JOIN pizzas
14   ON pizza_types.pizza_type_id=pizzas.pizza_type_id
15   JOIN order_details
16   ON
17   pizzas.pizza_id=order_details.pizza_id
18   group by pizza_types.category, pizza_types.name) as a) as b
19   where rn<=3;
```

RESULT

category	name	rev
Chicken	The Thai Chicken Pizza	43434
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41410
Classic	The Classic Deluxe Pizza	38180
Classic	The Hawaiian Pizza	32273
Classic	The Pepperoni Pizza	30162
Supreme	The Spicy Italian Pizza	34831
Supreme	The Italian Supreme Pizza	33477
Supreme	The Sicilian Pizza	30940
Veggie	The Four Cheese Pizza	32266
Veggie	The Mexicana Pizza	26781
Veggie	The Five Cheese Pizza	26066

THANK
YOU!

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