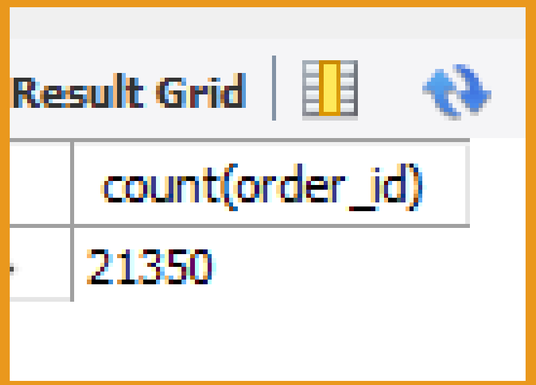
```
CREATE DATABASE PIZZAHUT;

USE PIZZAHUT;
```

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

.

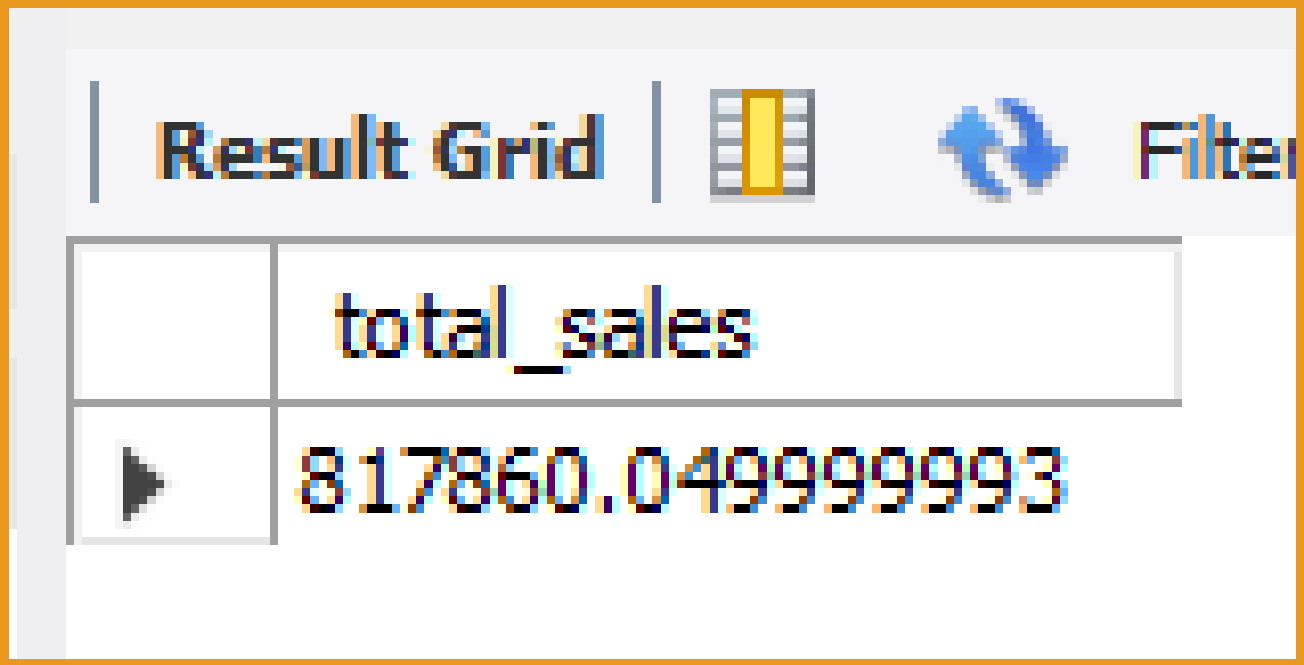
```
SELECT COUNT(ORDER_ID) FROM ORDERS;
```



YOUR PARAGRAPH TEXT

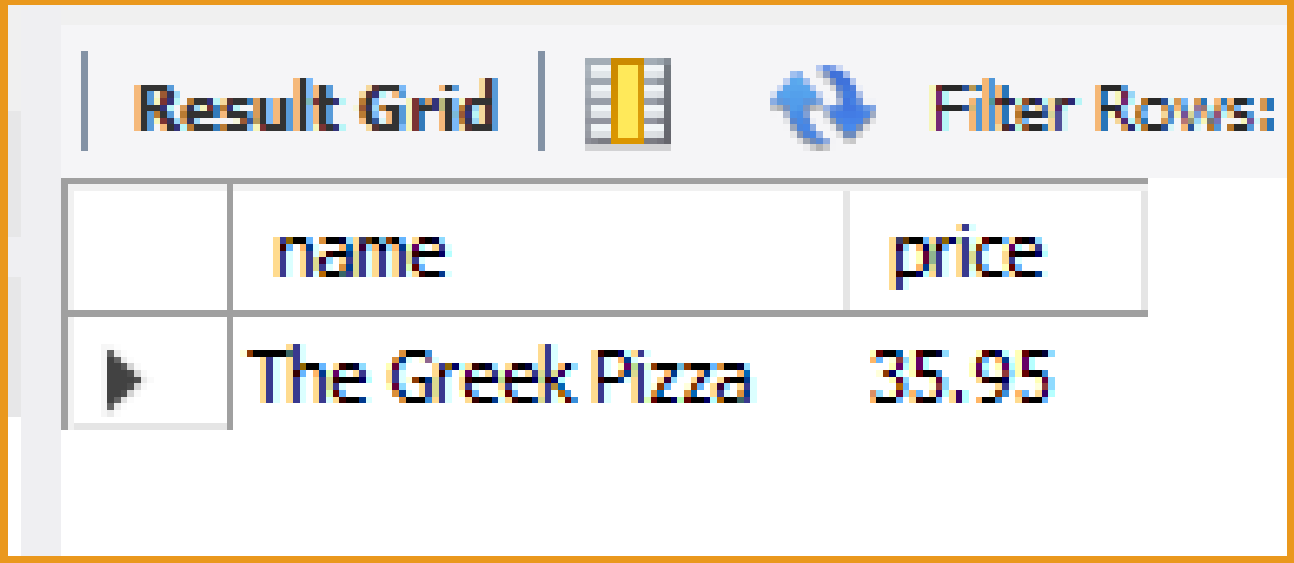
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT SUM(ORDERS_DETAILS.QUANTITY * PIZZAS.PRICE)
AS TOTAL_SALES
FROM ORDERS_DETAILS JOIN PIZZAS
ON PIZZAS.PIZZA_ID = ORDERS_DETAILS.PIZZA_ID;
```



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT PIZZA_TYPES.NAME, PIZZAS.PRICE FROM
PIZZA_TYPES INNER JOIN PIZZAS
ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID
ORDER BY PIZZAS.PRICE DESC LIMIT 1;
```



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT PIZZAS.SIZE,
COUNT(ORDERS_DETAILS.ORDER_DETAILS_ID) AS
ORDER_COUNT
FROM PIZZAS JOIN ORDERS_DETAILS ON
PIZZAS.PIZZA_ID = ORDERS_DETAILS.PIZZA_ID
GROUP BY PIZZAS.SIZE ORDER BY ORDER_COUNT
DESC;
```

Result Grid | Filter Rov

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.

```
SELECT PIZZA_TYPES.NAME,
SUM(ORDERS_DETAILS.QUANTITY) AS QUANTITY
FROM PIZZA_TYPES JOIN PIZZAS ON
PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID
JOIN ORDERS_DETAILS
ON ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID
GROUP BY PIZZA_TYPES.NAME ORDER BY QUANTITY DESC
LIMIT 5 ;
```

Result Grid | Filter Rows:

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

JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY.

```
SELECT PIZZA_TYPES.CATEGORY,
SUM(ORDERS_DETAILS.QUANTITY) AS QUANTITY
FROM PIZZA_TYPES JOIN PIZZAS
ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID
JOIN ORDERS_DETAILS
ON ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID
GROUP BY PIZZA_TYPES.CATEGORY ORDER BY QUANTITY
DESC;
```

Result Grid | Filte

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
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
16	1920
17	2336
18	2399
19	2009

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT CATEGORY, COUNT(NAME) AS NAME FROM
PIZZA_TYPES
GROUP BY CATEGORY;
```

Result Grid

category	name
Chicken	6
Classic	8
Supreme	9
Veggie	9

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

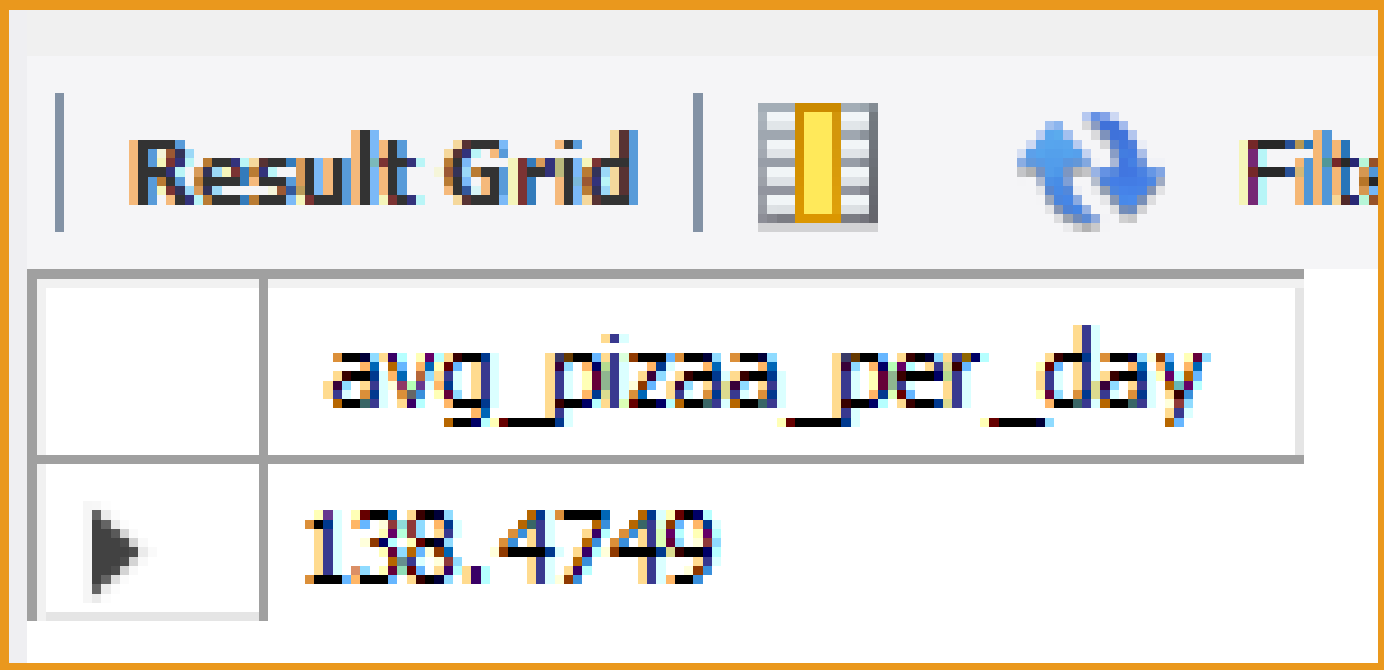
```
SELECT AVG(QUANTITY) AS AVG_PIZAA_PER_DAY FROM
(SELECT ORDERS.ORDER_DATE,
SUM(ORDERS_DETAILS.QUANTITY) AS QUANTITY FROM
ORDERS JOIN ORDERS_DETAILS ON
ORDERS_DETAILS.ORDER_ID = ORDERS.ORDER_ID
GROUP BY ORDERS.ORDER_DATE) AS ORDER_QUANTITY;
```

Result Grid | Filt

	avg_pizaa_per_day
▶	138.4749

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT ROUND(AVG(QUANTITY),0) AS AVG_PIZAA_PER_DAY
FROM
(SELECT ORDERS.ORDER_DATE,
SUM(ORDERS_DETAILS.QUANTITY) AS QUANTITY FROM
ORDERS JOIN ORDERS_DETAILS ON
ORDERS_DETAILS.ORDER_ID = ORDERS.ORDER_ID
GROUP BY ORDERS.ORDER_DATE) AS ORDER_QUANTITY;
```



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT PIZZA_TYPES.NAME, SUM(ORDERS_DETAILS.QUANTITY
* PIZZAS.PRICE) AS REVENUE
FROM PIZZA_TYPES JOIN PIZZAS ON PIZZAS.PIZZA_TYPE_ID
=  PIZZA_TYPES.PIZZA_TYPE_ID JOIN
ORDERS_DETAILS ON ORDERS_DETAILS.PIZZA_ID =
PIZZAS.PIZZA_ID
GROUP BY PIZZA_TYPES.NAME ORDER BY REVENUE DESC
LIMIT 3;
```

Result Grid | Filter Rows:

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.

```
SELECT PIZZA_TYPES.CATEGORY,
(SUM(ORDERS_DETAILS.QUANTITY * PIZZAS.PRICE) / (SELECT
ROUND(SUM(ORDERS_DETAILS.QUANTITY * PIZZAS.PRICE),2)
AS TOTAL_SALES
FROM ORDERS_DETAILS JOIN PIZZAS ON PIZZAS.PIZZA_ID =
ORDERS_DETAILS.PIZZA_ID)) * 100 AS REVENUE
FROM PIZZA_TYPES JOIN PIZZAS ON
PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID JOIN
ORDERS_DETAILS ON
ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID
GROUP BY PIZZA_TYPES.CATEGORY ORDER BY REVENUE DESC;
```

Result Grid | Filter Rows:

category	revenue
Classic	220053.1000000001
Supreme	208196.99999999822
Chicken	195919.5
Veggie	193690.45000000298

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(ORDERS_DETAILS.QUANTITY * PIZZAS.PRICE) AS
REVENUE
FROM ORDERS_DETAILS JOIN PIZZAS
ON ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID
JOIN ORDERS ON ORDERS.ORDER_ID =
ORDERS_DETAILS.ORDER_ID
GROUP BY ORDERS.ORDER_DATE) AS SALES LIMIT 3;
```

Result Grid | Filter Rows:

order_date	cum_revenue
2015-01-01	2713.850000000004
2015-01-02	5445.75
2015-01-03	8108.15

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((ORDERS_DETAILS.QUANTITY) * PIZZAS.PRICE) AS
REVENUE
FROM PIZZA_TYPES JOIN PIZZAS
ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID
JOIN ORDERS_DETAILS ON
ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID
GROUP BY PIZZA_TYPES.CATEGORY, PIZZA_TYPES.NAME) AS
A) AS B
WHERE RN <= 3 LIMIT 3;
```

Result Grid | Filter Rows:

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