

PIZZA SALES PROJECT

BY SQL





RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

Result Grid

total_orders
21350



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT

```
ROUND(SUM(pizzas.price * order_details.quantity),  
      2) AS total_sales
```

FROM

```
order_details
```

JOIN

```
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid

total_sales
817860.05



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT  
    pizza_types.name as pizza_name, pizzas.price  
FROM  
    pizzas  
        JOIN  
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
ORDER BY pizzas.price DESC  
LIMIT 1;
```

Result Grid | Filter Results

pizza_name	price
The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT  
    size, COUNT(order_details_id) AS orders  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.pizza_id  
GROUP BY size  
ORDER BY orders DESC;
```

	size	orders
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



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

```
select round(avg(quantity),0) as avg_order_per_day from
(SELECT
    order_date, SUM(quantity) as quantity
FROM
    orders
    JOIN
    order_details ON orders.order_id = order_details.order_id
GROUP BY order_date) as order_quantity;
```

	avg_order_per_day
▶	138

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT  
    pizza_types.name AS pizza_name,  
    SUM(order_details.quantity) AS quantity_ordered  
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_name  
ORDER BY quantity_ordered DESC  
LIMIT 5;
```



	pizza_name	quantity_ordered
►	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.

```
SELECT  
    pizza_types.category,  
    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.category  
ORDER BY quantity DESC;
```



	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 hours,  
    COUNT(order_id) AS total_orders.  
  
FROM  
    orders  
  
GROUP BY hours;
```

	hours	total_orders
▶	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.

```
SELECT  
    category, COUNT(name) AS pizza_name  
FROM  
    pizza_types  
GROUP BY category  
ORDER BY pizza_name DESC;
```



	category	pizza_name
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT  
    pizza_types.name,  
    SUM(order_details.quantity * pizzas.price) AS total_revenue  
FROM  
    order_details  
        JOIN  
    pizzas ON order_details.pizza_id = pizzas.pizza_id  
        JOIN  
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
GROUP BY name  
ORDER BY total_revenue DESC  
LIMIT 3;
```

	name	total_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,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(pizzas.price * order_details.quantity),
        2) AS total_sales
    )
    FROM
        order_details
        JOIN
            pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
    2) AS total_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 category
ORDER BY total_revenue DESC;
```

	category	total_revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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 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
2015-01-06	14358.5
▶ 2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004

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

```
select category, name, revenue from
(SELECT
    category, name, revenue, rank()
over(partition by category order by revenue desc) as ranks
FROM
(SELECT
    pizza_types.category,
    pizza_types.name,
    round(sum(order_details.quantity * pizzas.price),2) 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 ranks <= 3;
```

	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.7

THANK YOU!

