





TABLES NAME

These are the tables we have in our database.

01: orders

02: orders_details

03: pizza_types

04: pizzas

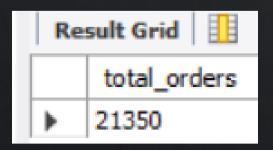
<u>A PROJECT REPORT BY ARPIT SHUKLA</u>

BASIC STRUCTURE AND SCHEMA:



```
create database pizzahub;
     create table orders(
       order id int not null,
       order date date not null,
       order time time not null,
       primary key(order id));
       create table orders details(
       order details id int not null,
       order id int not null,
10
       pizza id text not null,
11
12
       quantity int not null,
13
       primary key(order_details_id));
```

QUESTION 1: -- Retrieve the total number of orders placed.

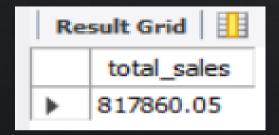


QUESTION 2: -- Calculate the total revenue generated from pizza sales.

```
SELECT
ROUND(SUM(pizzas.price * orders_details.quantity),

2) AS total_sales
FROM
pizzas

JOIN
orders_details ON pizzas.pizza_id = orders_details.pizza_id
```



QUESTION 3: -- Identify the highest-priced pizza.

```
pizzas.price, pizza_types.name

pizzas

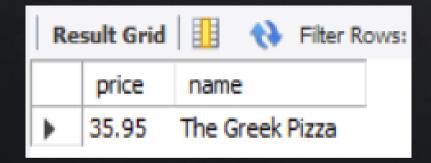
pizzas

JOIN

pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id

ORDER BY price DESC

LIMIT 1;
```



QUESTION 4: -- Identify the most common pizza size ordered.

```
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			
	size	order_count	
•	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

QUESTION 5: -- 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
10
       ORDER BY quantity DESC
11
12
       LIMIT 5;
```

	Result Grid				
		name	quantity		
	•	The Classic Deluxe Pizza	2453		
		The Barbecue Chicken Pizza	2432		
ı		The Hawaiian Pizza	2422		
		The Pepperoni Pizza	2418		
		The Thai Chicken Pizza 2371			

QUESTION 6:

--Join the necessary tables to find the total quantity of each pizza category ordered.

```
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
```

Re	sult Grid	Filte
	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

QUESTION 7: -- Determine the distribution of orders by hour of the day.

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

Re	sult Grid	ı 🔠 🕝	63
	hour	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	

QUESTION 8: -- Join relevant tables to find the category-wise distribution of pizzas.

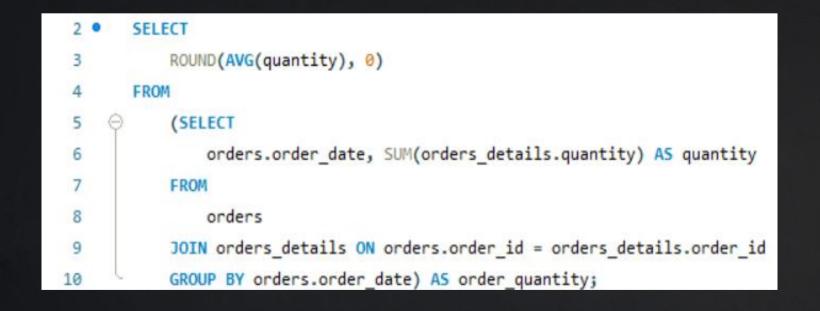


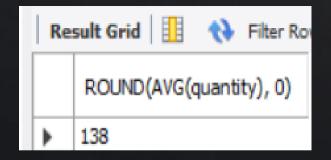
group by category;

Result Grid 1		
	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

QUESTION 9:

-- Group the orders by date and calculate the average number of pizzas ordered per day.





QUESTION 10: -- 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			
	name	revenue	
	The Thai Chicken Pizza 43434.25		
The Barbecue Chicken Pizza 42768		42768	
•	The California Chicken Pizza	41409.5	

QUESTION 11: -- Calculate the percentage contribution of each pizza type to total revenue.

```
select pizza_types.category,

oround(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)*100,2) 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.category order by revenue desc;
```

Result Grid			
	category	revenue	
•	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

QUESTION 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(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
10
       group by orders.order_date) as sales;
```

Re	esult Grid	♦ Filter Rows:
	order_date	cum_revenue
١	2015-01-01	2713.85000000000004
	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





THANK YOU

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