SQL PROJECT ON PIZZA DATA SET
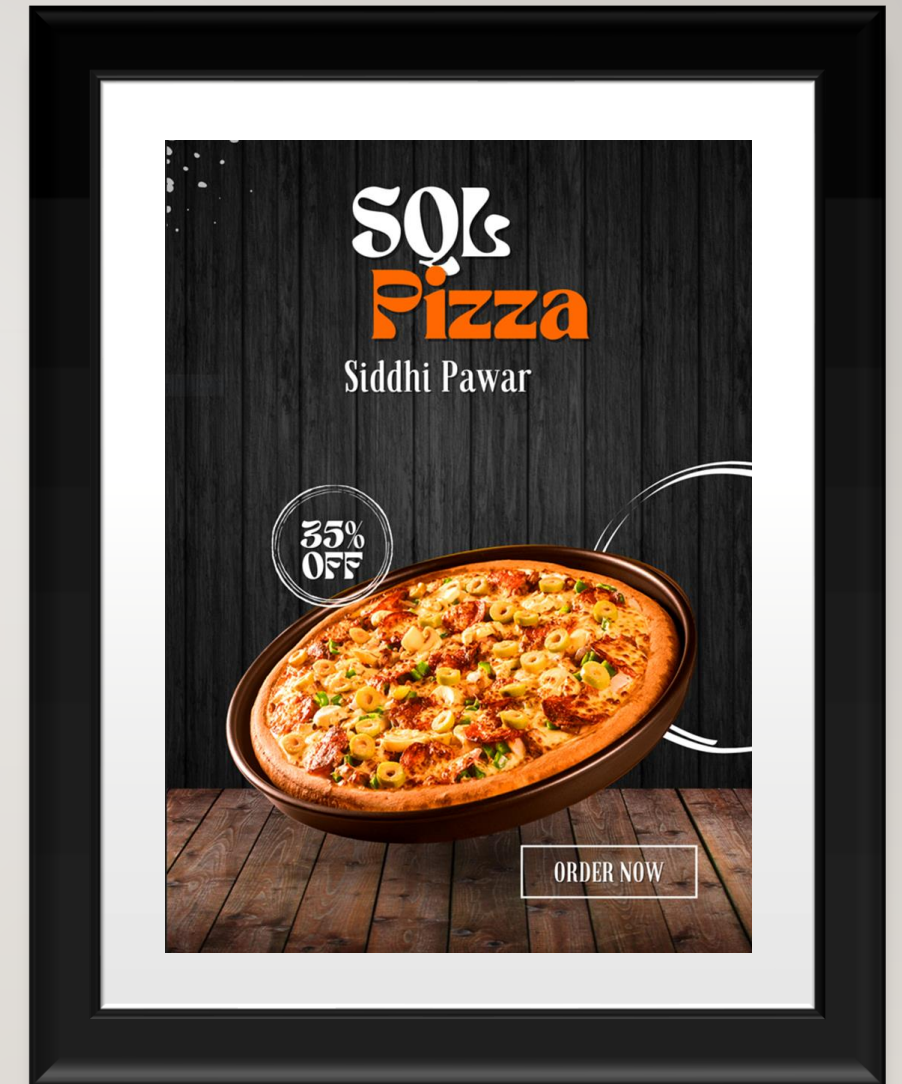
SIDDHI PAWAR

PIZZA TABLE

pizza_id	pizza_type_id	size	price
bbq_ckn_s	bbq_ckn	S	12.75
bbq_ckn_m	bbq_ckn	M	16.75
bbq_ckn_l	bbq_ckn	L	20.75
cali_ckn_s	cali_ckn	S	12.75
cali_ckn_m	cali_ckn	M	16.75
cali_ckn_l	cali_ckn	L	20.75
ckn_alfredo_s	ckn_alfredo	S	12.75
ckn_alfredo_m	ckn_alfredo	M	16.75

PIZZA TYPES TABLE

pizza_type_id	name	category	ingredients
bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppe...
cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms...
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, ...
thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
ital_cpcllo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee...
napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onion...
pep_msh_pep	The Pepperoni, Mushroom, ...	Classic	Pepperoni, Mushrooms, Green Peppers

ORDER DETAILS TABLE

order_details_id	order_id	pizza_id	quantity
1	1	hawaiian_m	1
2	2	classic_dlx_m	1
3	2	five_cheese_l	1
4	2	ital_supr_l	1
5	2	mexicana_m	1
6	2	thai_ckn_l	1
7	3	ital_supr_m	1
8	3	prsc_argla_l	1
9	4	ital_supr_m	1
10	5	ital_supr_m	1
11	6	bbq_ckn_s	1
12	6	the_greek_s	1

ORDER TABLE

order_id	order_date	order_time
1	2015-01-01	11:38:36
2	2015-01-01	11:57:40
3	2015-01-01	12:12:28
4	2015-01-01	12:16:31
5	2015-01-01	12:21:30
6	2015-01-01	12:29:36
7	2015-01-01	12:50:37
8	2015-01-01	12:51:37
9	2015-01-01	12:52:01
10	2015-01-01	13:00:15
11	2015-01-01	13:02:59
12	2015-01-01	13:04:41
13	2015-01-01	13:11:55

ORDER TABLE AND ORDER DETAILS TABLE CREATED

```
-- 1) Retrieve the total number of orderplaced
SELECT COUNT(order_id) AS total_orders FROM pizzahut.orders ;
```

total_orders
21350

```sql
-- 2) Calculate the total revenue generated from pizza sales.
SELECT ROUND(SUM(P.price * O.quantity),2) AS total_sales
FROM pizzahut.pizzas AS P
JOIN pizzahut.order_details AS O
ON P.pizza_id=O.pizza_id;
```

total_sales
817860.05

```sql
-- 3) Identify the highest-priced pizza.
SELECT pizza_types.name , pizzas.price
FROM pizza_types
JOIN pizzas
ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

name	price
The Greek Pizza	35.95

```sql
-- 4) Identify the most common pizza size ordered.
SELECT quantity, count(order_details_id)
from order_details
group by quantity;
```

quantity	count(order_details_id)
1	47693
2	903
3	21
4	3

```sql
51     -- 5) List the top 5 most ordered pizza types along with their quantities.
52     # quantiy = order_details table
53     # most ordered pizza = pizza_types table
54     # pizza table is common for both tables
55
56  •  SELECT pizza_types.name ,
57     sum(order_details.quantity) AS quantity
58     FROM pizza_types JOIN pizzas
59     ON pizza_types.pizza_type_id = pizzas.pizza_type_id
60     Join order_details
61     ON order_details.pizza_id = pizzas.pizza_id
62     group by pizza_types.name
63     ORDER BY quantity DESC
64     LIMIT 5;
65
66     -- 6) Join the necessary tables to find the total quantity of each pizza category ordered.
```

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

```sql
-- 6) Join the necessary tables to find the total quantity of each pizza category ordered.
SELECT  pizza_types.category AS 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 category
    Order by quantity DESC;
```

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

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

```
79

80    -- 7) Determine the distribution of orders by hour of the day.
81    -- SELECT * From orders
82
83 •  Select hour(order_time) AS hour, count(order_id) As order_count From orders
84    group by hour(order_time);
85
```

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

hour	order_count
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

```sql
86     -- 8) Join relevant tables to find the category-wise distribution of pizzas.
87 •   SELECT category , count(name)
88     from pizza_types
89     group by category;
90
91
92
93
94
```

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

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

```
93    -- -- 9) Group the orders by date and
94    --  calculate the average number of pizzas ordered per day.
95
96 •  select round(AVG(quantity),0) From
97    (SELECT orders.order_date , sum(order_details.quantity) AS quantity
98    FROM orders Join order_details
99    ON orders.order_id = order_details.order_id
100   group by orders.order_date) AS data ;
101
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:

round(AVG(quantity),0)
138

```sql
-- 10) Determine the top 3 most ordered pizza types based on revenue.

select pizza_types.name,
sum(order_details.quantity * pizzas.price) 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.name
order by revenue desc
limit 3;
```

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