

PIZZA TIME

GET READY TO SLICE
INTO SAVINGS WITH
OUR PIZZA SALE!

ORDER NOW



HELLO MY NAME IS
AKSHAY.A.UTTARWAR

IN THIS PROJECT I HAVE
UTILIZED MYSQL QUERIES TO
SOLVE THE QUESTIONS THAT
ARE RELATED TO PIZZA SALE

- Basic:

Q1-Retrieve the total number of orders placed.

Q2-Calculate the total revenue generated from pizza sales.

Q3-Identify the highest-priced pizza.

Q4-Identify the most common pizza size ordered.

Q5-List the top 5 most ordered pizza types along with their quantities.

- Intermediate:

Q6-Join the necessary tables to find the total quantity of each pizza category ordered.

Q7-Determine the distribution of orders by hour of the day.

Q8-Join relevant tables to find the category-wise distribution of pizzas.

Q9-Group the orders by date and calculate the average number of pizzas ordered per day.

Q10-Determine the top 3 most ordered pizza types based on revenue.

- Advanced:

Q11-Calculate the percentage contribution of each pizza type to total revenue.

Q12-Analyze the cumulative revenue generated over time.

Q13Determine the top 3 most ordered pizza types based on revenue for each pizza category

QUESTION 1 - ANSWER

```
17  
18     /*Retrieve the total number of orders placed.*/  
19  
20 • Select count(order_id) as total_orders from orders;  
21
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content
	total_orders			
▶	21350			

QUESTION 2 - ANSWER

```
21
22      /*Calculate the total revenue generated from pizza sales*/
23
24 •   SELECT
25     ROUND(SUM(order_details.quantity * pizzas.price),
26           2) AS total_sales
27
28     FROM
29
30         order_details
31
32             JOIN
33
34             pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	total_sales			
▶	817860.05			

QUESTION 3 - ANSWER

```
32      -- Identify the highest-priced pizza
33
34 •   SELECT
35     pizza_types.name, pizzas.price
36   FROM
37     pizza_types
38       JOIN
39     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
40   ORDER BY pizzas.price DESC
41   LIMIT 1;
```

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

	name	price
▶	The Greek Pizza	35.95

QUESTION 4 - ANSWER

```
44      -- Identify the most common pizza size ordered.  
45  
46 •   SELECT  
47      pizzas.size,  
48      COUNT(order_details.order_details_id) AS order_count  
49  FROM  
50      pizzas  
51      JOIN  
52      order_details ON pizzas.pizza_id = order_details.pizza_id  
53  GROUP BY pizzas.size  
54  ORDER BY order_count DESC  
55  LIMIT 1;
```

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

	size	order_count
▶ L	L	18526

QUESTION 5 - ANSWER

```
57      -- List the top 5 most ordered pizza types along with their quantities.  
58  
59 •  SELECT  
60      pizza_types.name, SUM(order_details.quantity) AS quantity  
61      FROM  
62      pizza_types  
63          JOIN  
64      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
65          JOIN  
66      order_details ON order_details.pizza_id = pizzas.pizza_id  
67      GROUP BY pizza_types.name  
68      ORDER BY quantity DESC  
69      LIMIT 5;
```

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

QUESTION 6 - ANSWER

```
71      -- Join the necessary tables to find the total quantity of each pizza category.
72
73 •  SELECT
74      PIZZA_TYPES.CATEGORY,
75      SUM(ORDER_DETAILS.QUANTITY) AS QUANTITY
76  FROM
77      PIZZA_TYPES
78      JOIN
79      PIZZAS ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID
80      JOIN
81      ORDER_DETAILS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID
82  GROUP BY PIZZA_TYPES.CATEGORY
83  ORDER BY QUANTITY DESC;
```

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

CATEGORY	QUANTITY
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

QUESTION 7 - ANSWER

```
86      -- Determine the distribution of orders by hour of the day.  
87  
88 •      SELECT  
89          HOUR(ORDER_TIME), COUNT(ORDER_ID)  
90      FROM  
91          ORDERS  
92      GROUP BY HOUR(ORDER_TIME);  
93
```

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

	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

QUESTION 8 - ANSWER

```
93  
94  
95      -- Join relevant tables to find the category-wise distribution of pizzas.  
96  
97 •  SELECT CATEGORY, COUNT(NAME)  
98   FROM PIZZA_TYPES  
99   GROUP BY CATEGORY ;  
100
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	CATEGORY	COUNT(NAME)		
▶	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		

QUESTION 9 - ANSWER

```
101      -- Group the orders by date and calculate the average number of pizzas ordered per day.  
102  
103 •   SELECT  
104         ROUND(AVG(QUANTITY), 0) AS AVG_PIZZAS_ORDERED_PER_DAY  
105     FROM  
106     (SELECT  
107         ORDERS.ORDER_DATE, SUM(ORDER_DETAILS.QUANTITY) AS QUANTITY  
108     FROM  
109         ORDERS  
110     JOIN ORDER_DETAILS ON ORDERS.ORDER_ID = ORDER_DETAILS.ORDER_ID  
111     GROUP BY ORDERS.ORDER_DATE) AS ORDER_QUANTITY;  
112
```

Result Grid			Filter Rows:	<input type="text"/>	Export:		Wrap Cell Content:	
	Avg_Pizzas_Ordered_Per_Day							
▶	138							

QUESTION 10 - ANSWER

```
113      -- Determine the top 3 most ordered pizza types based on revenue.  
114  
115 •      SELECT  
116          PIZZA_TYPES.NAME,  
117          SUM(ORDER_DETAILS.QUANTITY * PIZZAS.PRICE) AS REVENUE  
118      FROM  
119          PIZZA_TYPES  
120              JOIN  
121                  PIZZAS ON PIZZAS.PIZZA_TYPE_ID = PIZZA_TYPES.PIZZA_TYPE_ID  
122              JOIN  
123                  ORDER_DETAILS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID  
124          GROUP BY PIZZA_TYPES.NAME  
125          ORDER BY REVENUE DESC  
126          LIMIT 3;  
127
```

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

	NAME	REVENUE
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

QUESTION 11 - ANSWER

```
127      -- Calculate the percentage contribution of each pizza type to total revenue.  
128 •      SELECT  
129          PIZZA_TYPES.CATEGORY,  
130          ROUND(SUM(ORDER_DETAILS.QUANTITY * PIZZAS.PRICE) / (SELECT  
131              ROUND(SUM(order_details.quantity * pizzas.price),  
132                  2) AS total_sales  
133          FROM  
134              ORDER_DETAILS  
135          JOIN  
136              PIZZAS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID) * 100,  
137          2) AS REVENUE  
138      FROM  
139          PIZZA_TYPES  
140          JOIN  
141              PIZZAS ON PIZZAS.PIZZA_TYPE_ID = PIZZA_TYPES.PIZZA_TYPE_ID  
142          JOIN  
143              ORDER_DETAILS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID  
144          GROUP BY PIZZA_TYPES.CATEGORY  
145          ORDER BY REVENUE DESC;  
...
```

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

	CATEGORY	REVENUE
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96

QUESTION 12 - ANSWER

```
157    -- Analyze the cumulative revenue generated over time.  
158  
159 • Ⓜ SELECT ORDER_DATE, SUM(REVENUE) OVER(ORDER BY ORDER_DATE) AS CUM_REVENUE FROM (SELECT ORDERS.ORDER_DATE,  
160      SUM(ORDER_DETAILS.QUANTITY*PIZZAS.PRICE) AS REVENUE  
161      FROM ORDER_DETAILS JOIN PIZZAS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID  
162      JOIN ORDERS ON ORDERS.ORDER_ID = ORDER_DETAILS.ORDER_ID  
163      GROUP BY ORDERS.ORDER_DATE) AS SALES;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	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
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.60000000006

QUESTION 13 - ANSWER

```
180      -- Determine the top 3 most ordered pizza types based on revenue for each pizza category.  
181  
182 • Ⓜ SELECT NAME,REVENUE FROM (SELECT CATEGORY,NAME,REVENUE, RANK() OVER(PARTITION BY CATEGORY ORDER BY REVENUE DESC) AS RN  
183     Ⓜ FROM (SELECT PIZZA_TYPES.CATEGORY, PIZZA_TYPES.NAME,  
184             SUM((ORDER_DETAILS.QUANTITY) * PIZZAS.PRICE) AS REVENUE  
185         FROM PIZZA_TYPES JOIN PIZZAS ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID  
186        JOIN ORDER_DETAILS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID GROUP BY PIZZA_TYPES.CATEGORY, PIZZA_TYPES.NAME) AS A ) AS B  
187     WHERE RN <=3;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
NAME	REVENUE			
The Thai Chicken Pizza	43434.25			
The Barbecue Chicken Pizza	42768			
The California Chicken Pizza	41409.5			
The Classic Deluxe Pizza	38180.5			
The Hawaiian Pizza	32273.25			
The Pepperoni Pizza	30161.75			
The Spicy Italian Pizza	34831.25			
The Italian Supreme Pizza	33476.75			
The Sicilian Pizza	30940.5			
The Four Cheese Pizza	32265.70000000065			
The Mexicana Pizza	26780.75			
The Five Cheese Pizza	26066.5			

**THANK
YOU**