zomato

Developed by,

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ZOMATO FOOD SALES ANALYSIS USING SQL

ABOUT PROJECT

- This project is a **SQL-based data analysis project** built on a Zomato-like food delivery database.
  The objective of this project is to analyze **customers, restaurants, orders, menu items, reviews, and deliveries** to extract meaningful business insights.
- The project uses **MySQL queries** including joins, aggregations, subqueries, and filtering techniques to solve real-world business questions such as customer spending behavior, restaurant performance, popular food items, and delivery ratings.
- This project helps in understanding how SQL is used in **real-time food delivery platforms** for data-driven decision making.

KEY FOCUS AREAS

- Customer behavior analysis
- Restaurant performance evaluation
- Order and revenue analysis
- Menu item pricing analysis
- Customer reviews and ratings
- Delivery performance and ratings
- SQL joins, aggregations, and subqueries

QUESTIONS

- **Basic Level Questions:**
- List all restaurants along with their city and cuisine type.
- Show all customers who belong to Gurgaon.
- Display all menu items costing more than ₹200.
- Show all orders that have been successfully delivered.
- List all deliveries that received a 5-star rating.

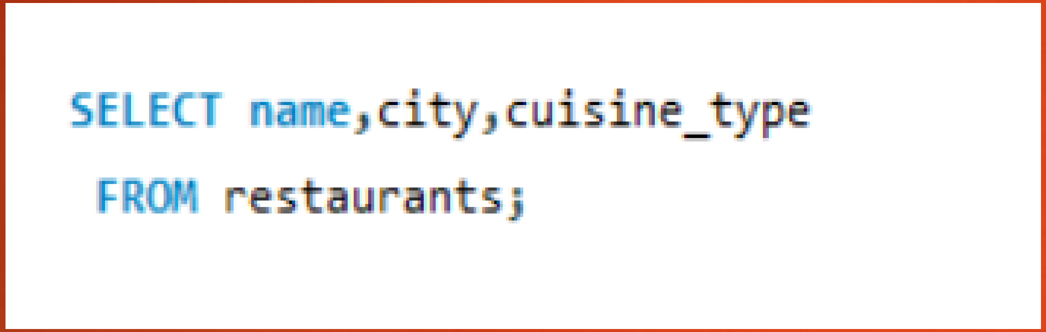
- **Intermediate Level Questions:**
- Show all customers along with their orders, including customers who have not placed any order.
- Display order details with customer name and restaurant name.
- Find the total number of orders placed for each restaurant.
- Find the average rating of each restaurant.
- Show the top 3 restaurants based on the number of reviews.

- **Advanced Level Questions:**
- Find the customer who has spent the highest total amount on orders.
- List the restaurants that have received more reviews than the average number of reviews per restaurant.
- Find the most expensive menu item(s) in each restaurant.

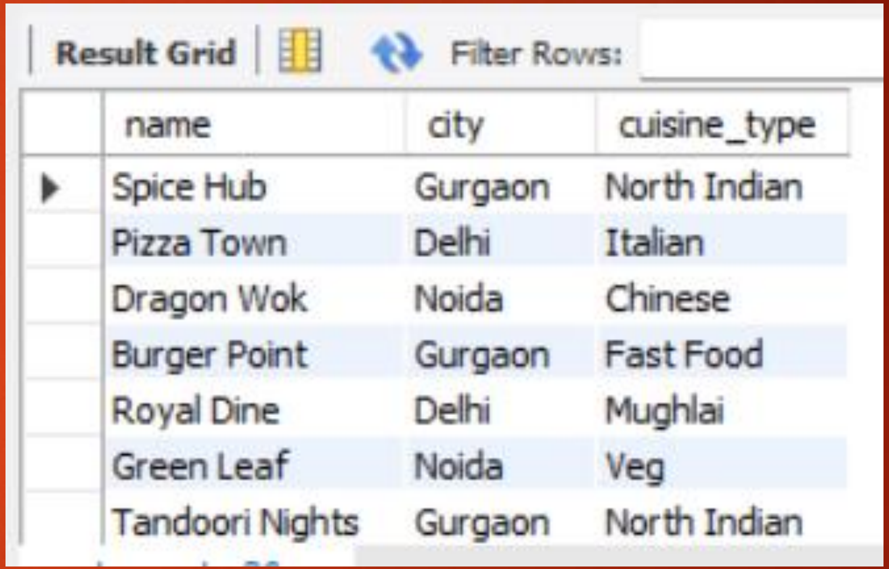
BASIC : 01

Q. List all restaurants along with their city and cuisine type.

ANSWER:



```
SELECT name,city,cuisine_type
 FROM restaurants;
```

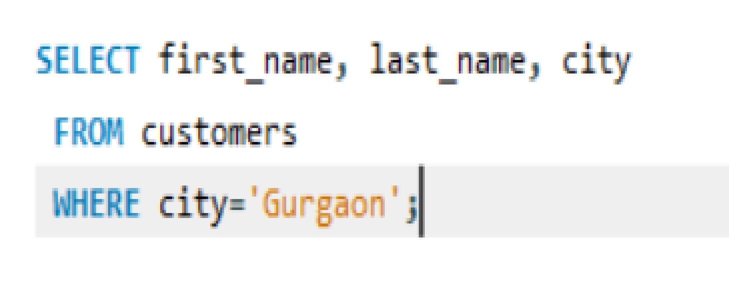


name	city	cuisine_type
Spice Hub	Gurgaon	North Indian
Pizza Town	Delhi	Italian
Dragon Wok	Noida	Chinese
Burger Point	Gurgaon	Fast Food
Royal Dine	Delhi	Mughlai
Green Leaf	Noida	Veg
Tandoori Nights	Gurgaon	North Indian

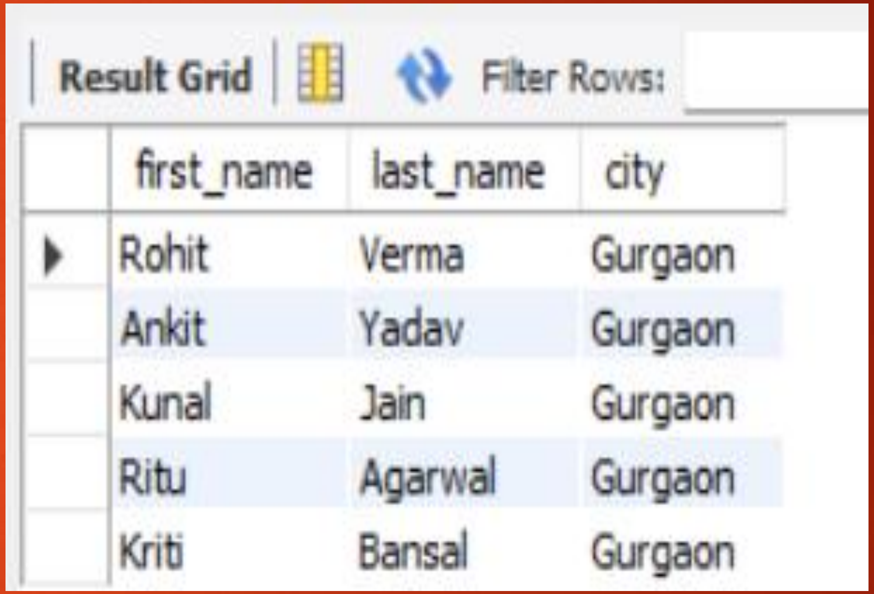
BASIC : 02

Q. Show all customers who belong to Gurgaon.

ANSWER:



```
SELECT first_name, last_name, city
 FROM customers
WHERE city='Gurgaon';
```

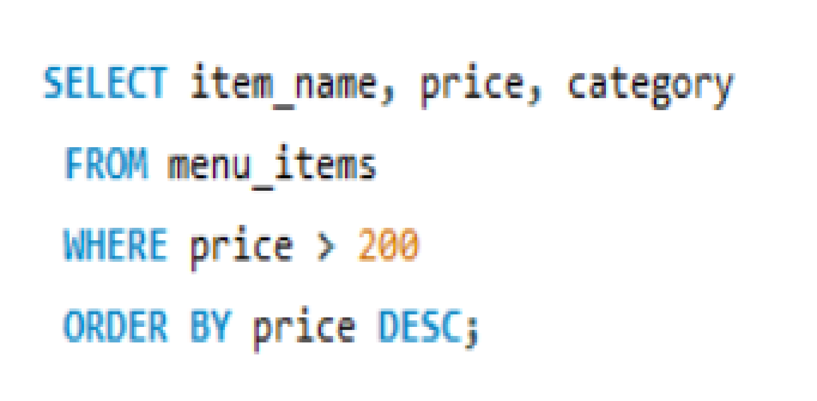


first_name	last_name	city
Rohit	Verma	Gurgaon
Ankit	Yadav	Gurgaon
Kunal	Jain	Gurgaon
Ritu	Agarwal	Gurgaon
Kriti	Bansal	Gurgaon

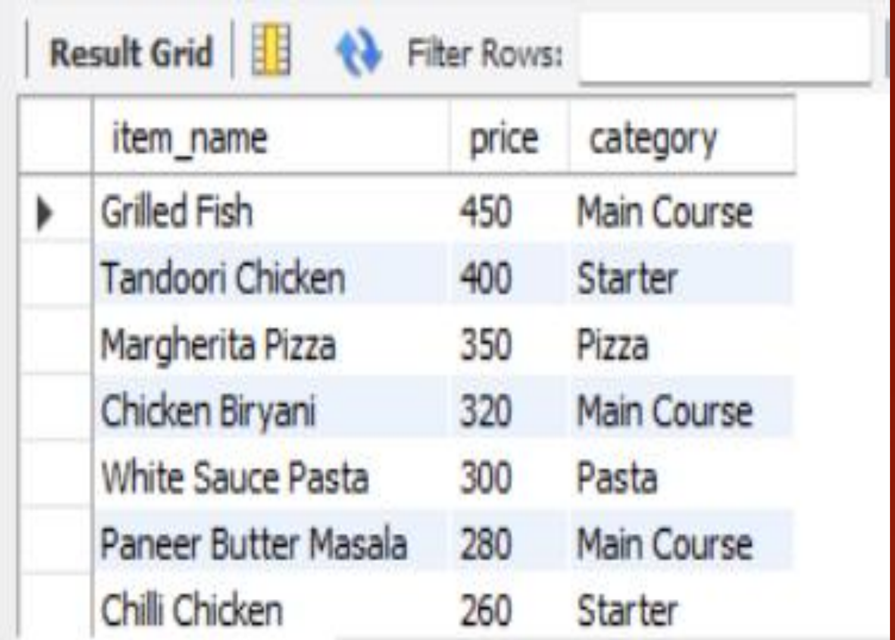
BASIC : 03

Q. Display all menu items costing more than ₹200.

ANSWER:



```
SELECT item_name, price, category
 FROM menu_items
 WHERE price > 200
 ORDER BY price DESC;
```

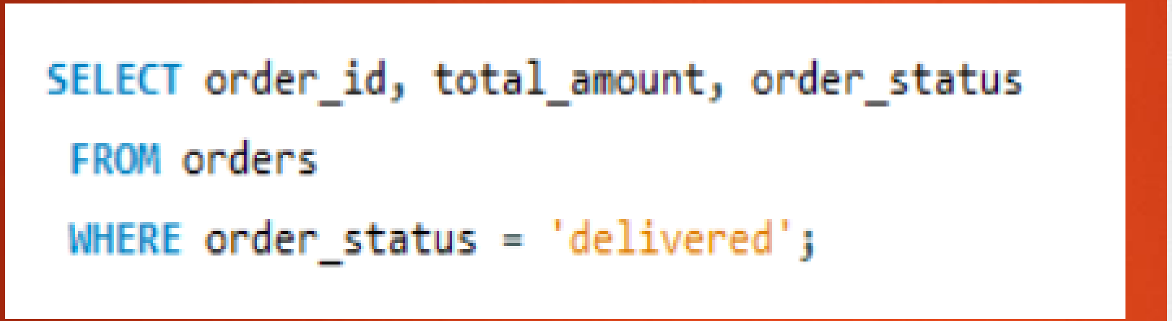


item_name	price	category
Grilled Fish	450	Main Course
Tandoori Chicken	400	Starter
Margherita Pizza	350	Pizza
Chicken Biryani	320	Main Course
White Sauce Pasta	300	Pasta
Paneer Butter Masala	280	Main Course
Chilli Chicken	260	Starter

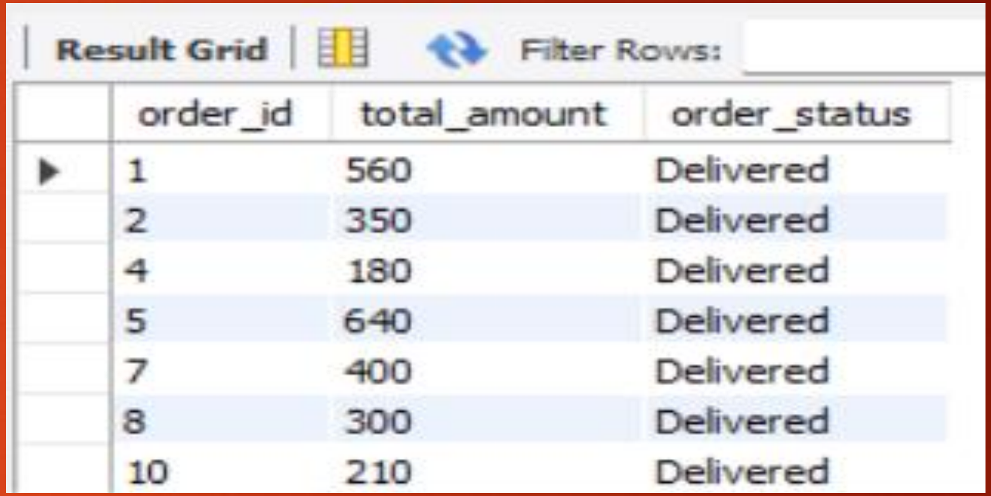
BASIC : 04

Q. Show all orders that have been successfully delivered.

ANSWER:



```
SELECT order_id, total_amount, order_status
 FROM orders
 WHERE order_status = 'delivered';
```

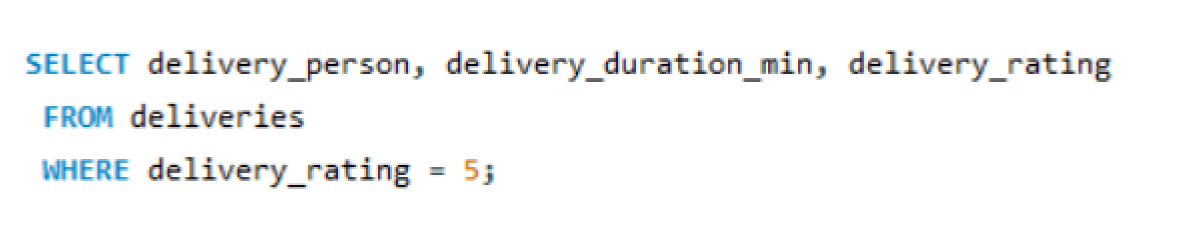


order_id	total_amount	order_status
1	560	Delivered
2	350	Delivered
4	180	Delivered
5	640	Delivered
7	400	Delivered
8	300	Delivered
10	210	Delivered

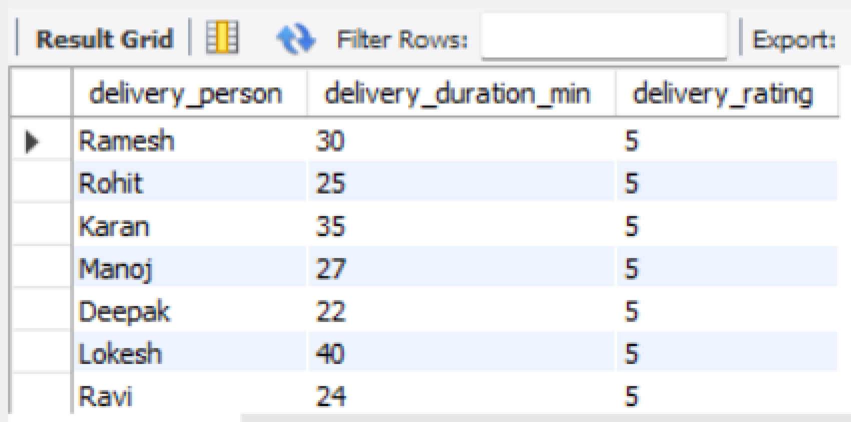
BASIC : 05

Q. List all deliveries that received a 5-star rating.

ANSWER:



```sql
SELECT delivery_person, delivery_duration_min, delivery_rating
 FROM deliveries
 WHERE delivery_rating = 5;
```



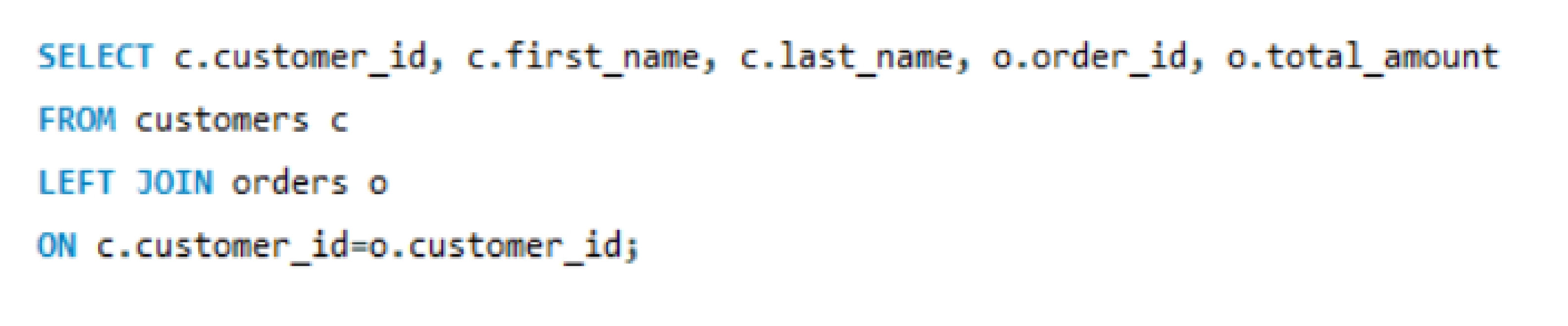
delivery_person	delivery_duration_min	delivery_rating
Ramesh	30	5
Rohit	25	5
Karan	35	5
Manoj	27	5
Deepak	22	5
Lokesh	40	5
Ravi	24	5

ZOMATO FOOD SALE ANALYSIS USING SQL

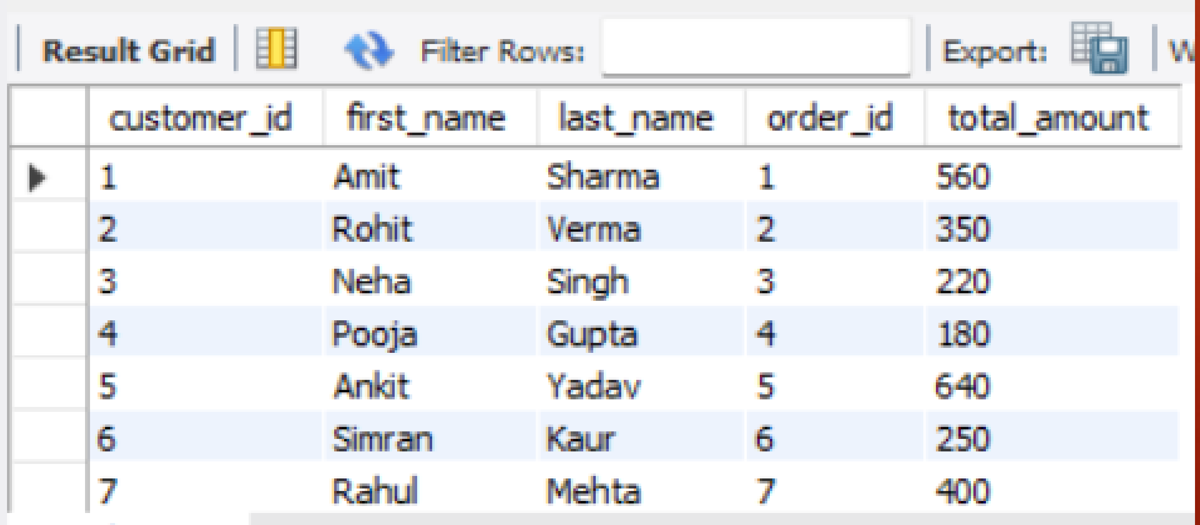
Intermediat : 01

Q. Show all customers along with their orders, including customers who have not placed any order.

Answer:



```
SELECT c.customer_id, c.first_name, c.last_name, o.order_id, o.total_amount
FROM customers c
LEFT JOIN orders o
ON c.customer_id=o.customer_id;
```

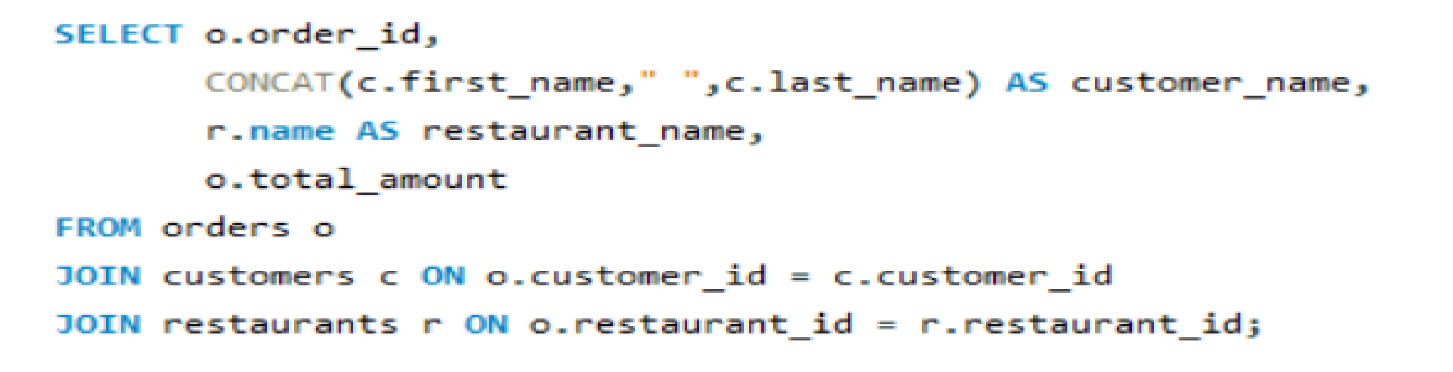


customer_id	first_name	last_name	order_id	total_amount
1	Amit	Sharma	1	560
2	Rohit	Verma	2	350
3	Neha	Singh	3	220
4	Pooja	Gupta	4	180
5	Ankit	Yadav	5	640
6	Simran	Kaur	6	250
7	Rahul	Mehta	7	400

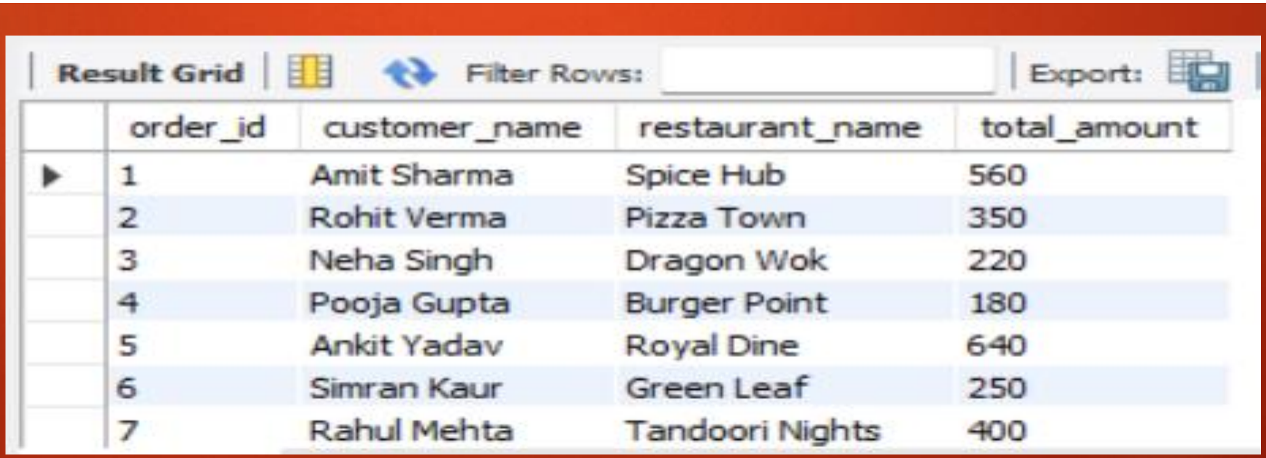
Intermediate : 02

Q. Display order details with customer name and restaurant name.

Answer:



```
SELECT o.order_id,
       CONCAT(c.first_name," ",c.last_name) AS customer_name,
       r.name AS restaurant_name,
       o.total_amount
FROM orders o
JOIN customers c ON o.customer_id = c.customer_id
JOIN restaurants r ON o.restaurant_id = r.restaurant_id;
```

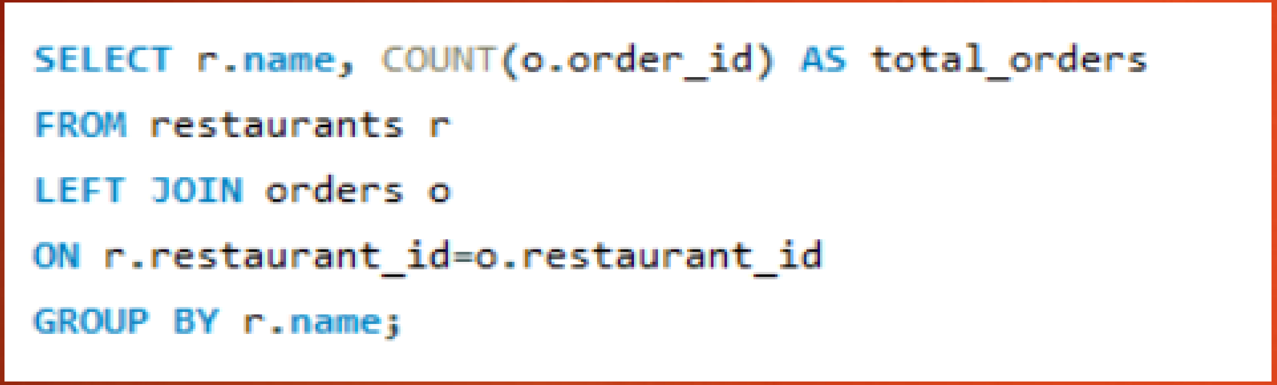


order_id	customer_name	restaurant_name	total_amount
1	Amit Sharma	Spice Hub	560
2	Rohit Verma	Pizza Town	350
3	Neha Singh	Dragon Wok	220
4	Pooja Gupta	Burger Point	180
5	Ankit Yadav	Royal Dine	640
6	Simran Kaur	Green Leaf	250
7	Rahul Mehta	Tandoori Nights	400

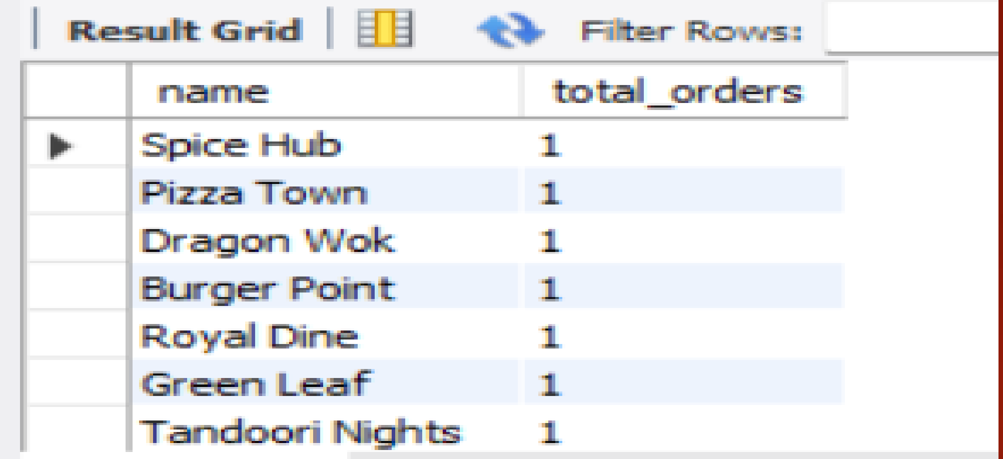
INTERMEDIATE : 03

Q. Find the total number of orders placed for each restaurant.

Answer:



```
SELECT r.name, COUNT(o.order_id) AS total_orders
FROM restaurants r
LEFT JOIN orders o
ON r.restaurant_id=o.restaurant_id
GROUP BY r.name;
```

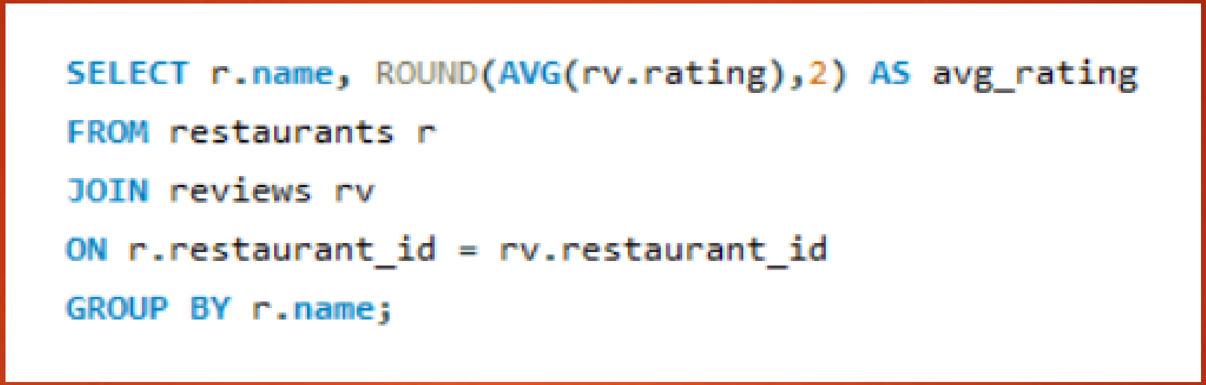


name	total_orders
Spice Hub	1
Pizza Town	1
Dragon Wok	1
Burger Point	1
Royal Dine	1
Green Leaf	1
Tandoori Nights	1

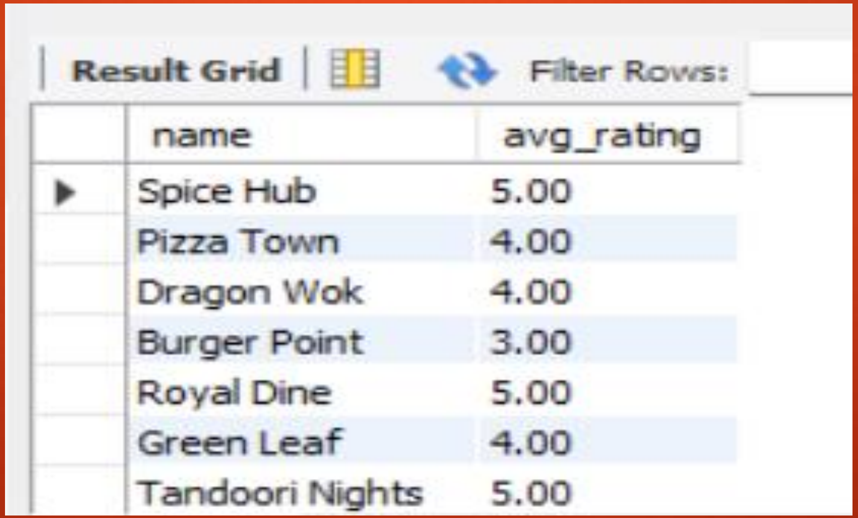
Intermediate : 04

Q. FIND THE AVERAGE RATING OF EACH RESTAURANT.

Answer:



```
SELECT r.name, ROUND(AVG(rv.rating),2) AS avg_rating
FROM restaurants r
JOIN reviews rv
ON r.restaurant_id = rv.restaurant_id
GROUP BY r.name;
```

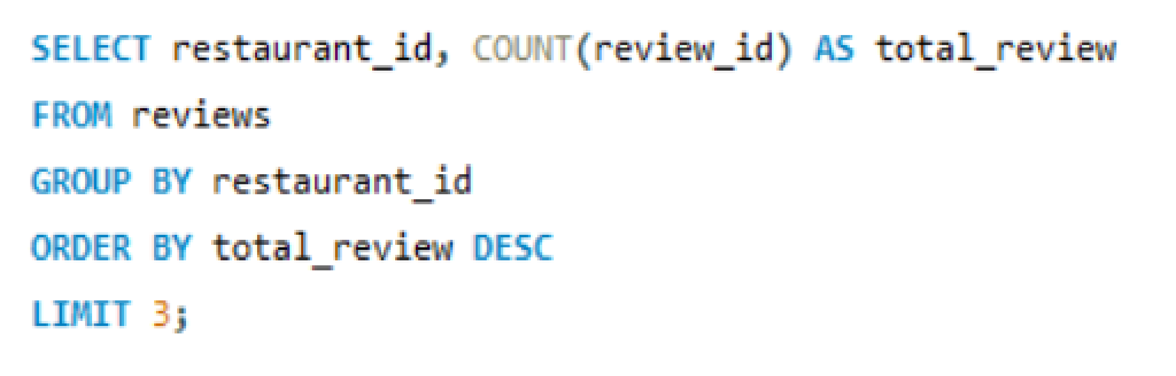


name	avg_rating
Spice Hub	5.00
Pizza Town	4.00
Dragon Wok	4.00
Burger Point	3.00
Royal Dine	5.00
Green Leaf	4.00
Tandoori Nights	5.00

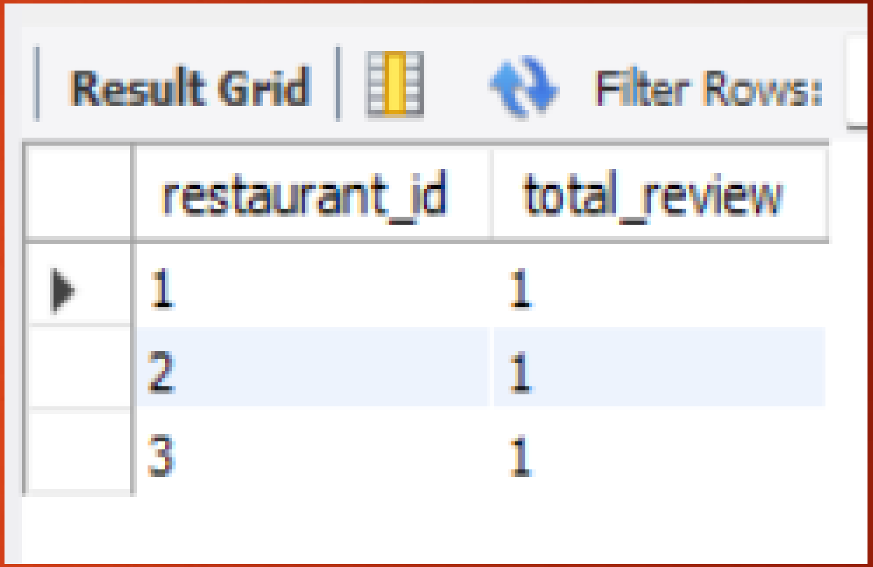
Intermediate : 05

Q. Show the top 3 restaurants based on the number of reviews.

Answer:



```
SELECT restaurant_id, COUNT(review_id) AS total_review
FROM reviews
GROUP BY restaurant_id
ORDER BY total_review DESC
LIMIT 3;
```

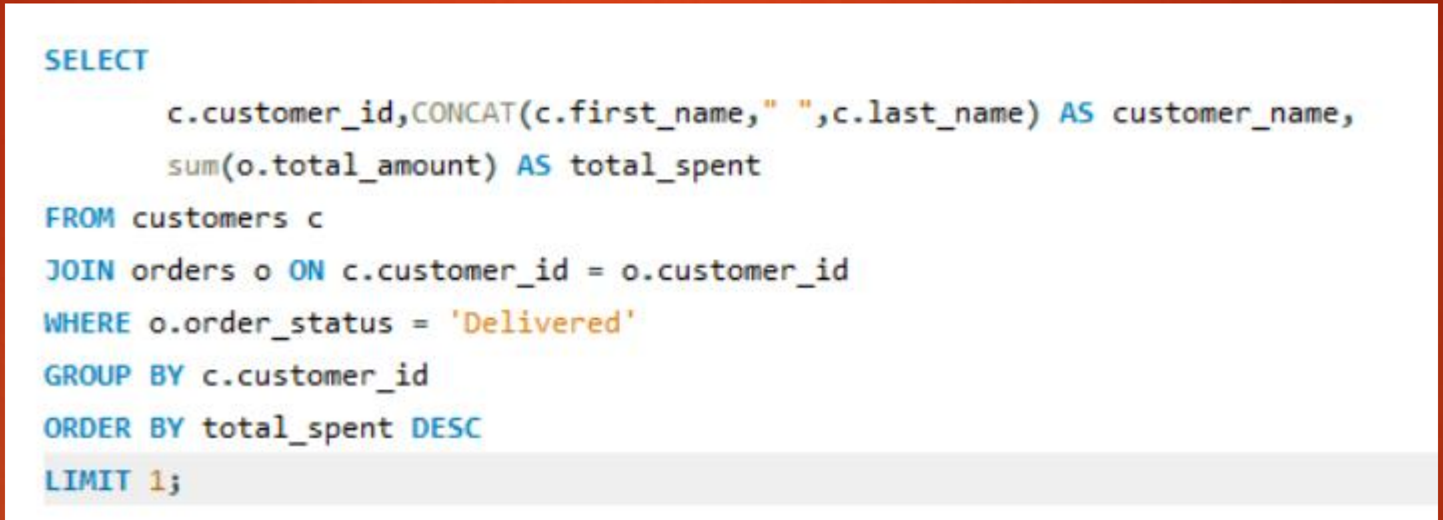


restaurant_id	total_review
1	1
2	1
3	1

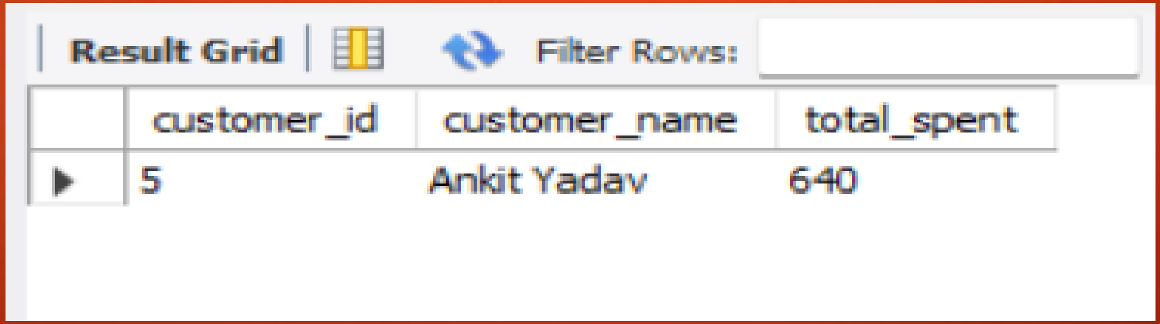
ADVANCED : 01

Q. Find the customer who has spent the highest total amount on orders.

ANSWER:



```sql
SELECT
	c.customer_id,CONCAT(c.first_name," ",c.last_name) AS customer_name,
	sum(o.total_amount) AS total_spent
FROM customers c
JOIN orders o ON c.customer_id = o.customer_id
WHERE o.order_status = 'Delivered'
GROUP BY c.customer_id
ORDER BY total_spent DESC
LIMIT 1;
```

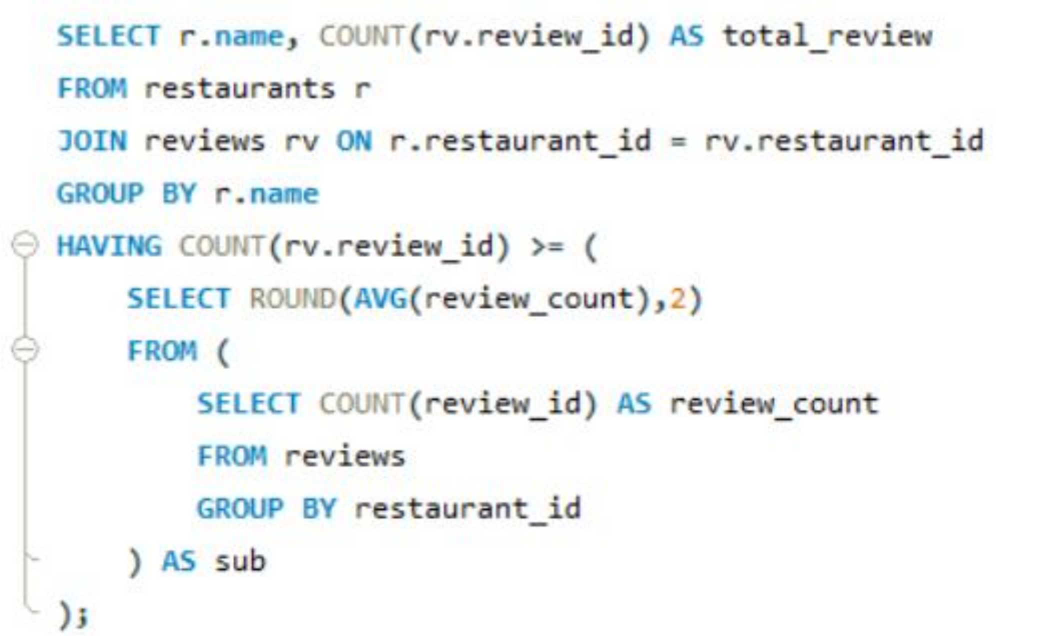


	customer_id	customer_name	total_spent
▶	5	Ankit Yadav	640

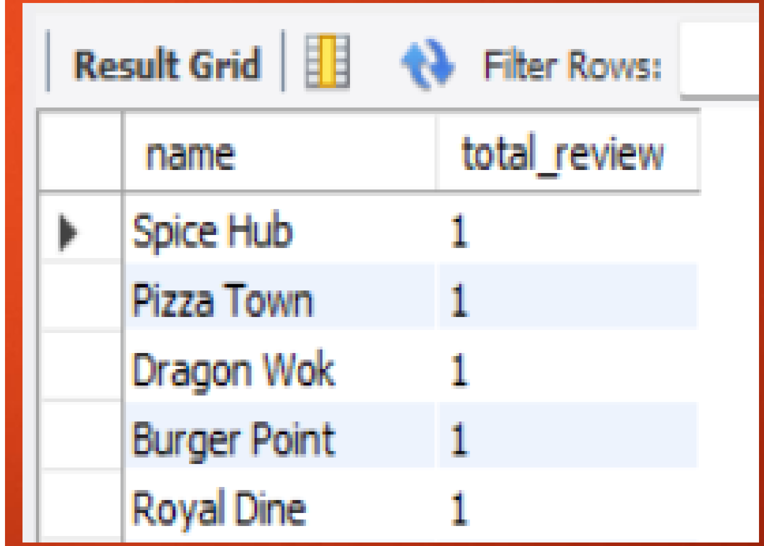
ADVANCED : 02

Q. List the restaurants that have received more reviews than the average number of reviews per restaurant.

ANSWER:



```
SELECT r.name, COUNT(rv.review_id) AS total_review
FROM restaurants r
JOIN reviews rv ON r.restaurant_id = rv.restaurant_id
GROUP BY r.name
HAVING COUNT(rv.review_id) >= (
    SELECT ROUND(AVG(review_count),2)
    FROM (
        SELECT COUNT(review_id) AS review_count
        FROM reviews
        GROUP BY restaurant_id
    ) AS sub
);
```

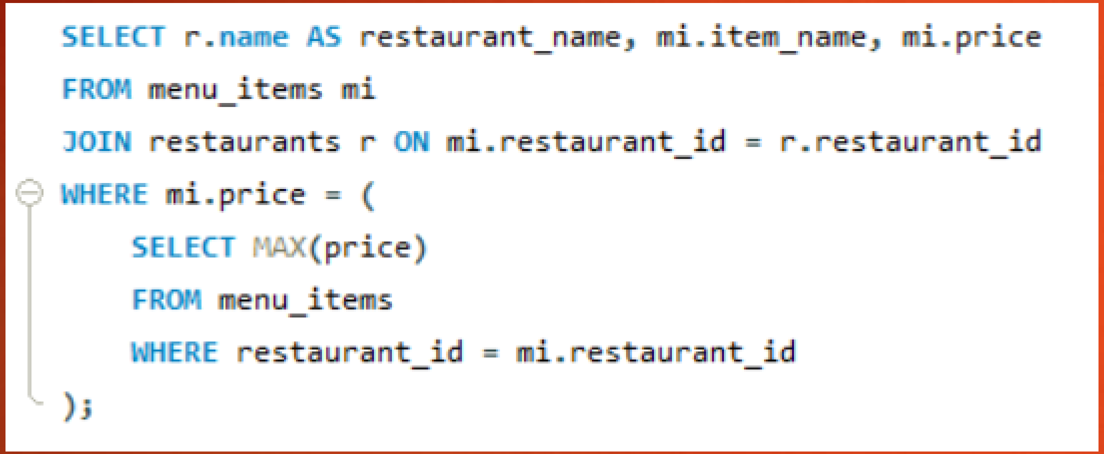


name	total_review
Spice Hub	1
Pizza Town	1
Dragon Wok	1
Burger Point	1
Royal Dine	1

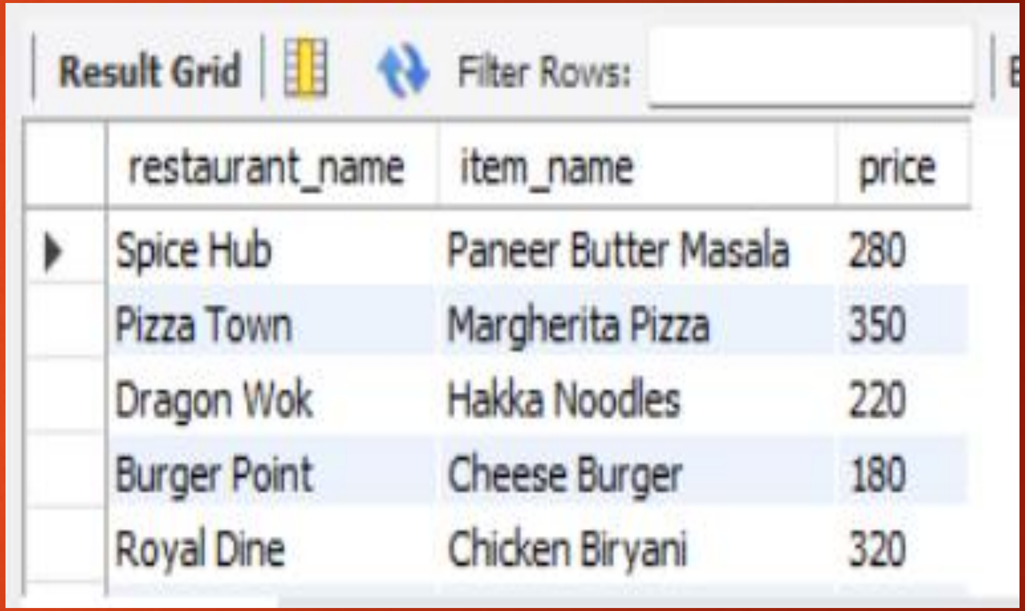
ADVANCED : 03

Q. Find the most expensive menu item(s) in each restaurant.

ANSWER:



```sql
SELECT r.name AS restaurant_name, mi.item_name, mi.price
FROM menu_items mi
JOIN restaurants r ON mi.restaurant_id = r.restaurant_id
WHERE mi.price = (
    SELECT MAX(price)
    FROM menu_items
    WHERE restaurant_id = mi.restaurant_id
);
```



restaurant_name	item_name	price
Spice Hub	Paneer Butter Masala	280
Pizza Town	Margherita Pizza	350
Dragon Wok	Hakka Noodles	220
Burger Point	Cheese Burger	180
Royal Dine	Chicken Biryani	320

Thank you For Attention

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