I got an error code 1055

I solved it by running this

SET sql\_mode=(SELECT REPLACE(@@sql\_mode,'ONLY\_FULL\_GROUP\_BY',''));

A screenshot of a computer

Description automatically generated

Questions

1. Select a particular database

First execute the below line then it will use only this schema

USE zomato\_case\_study;

SELECT \* FROM users

1. Count number of rows

SELECT COUNT(\*) FROM users

1. Return n random records

SELECT \* FROM users

ORDER BY rand() LIMIT 5

1. Find null values

SELECT \* FROM orders WHERE restaurant\_rating IS NULL

* To replace NULL values with 0

UPDATE orders SET restaurant\_rating = 0 WHERE restaurant\_rating IS NULL

* How to convert empty spaces to NULL values

UPDATE orders

SET restaurant\_rating = NULLIF(restaurant\_rating, '')

1. Find the number of orders placed by each customer

SELECT t2.name,COUNT(\*) AS '#orders'

FROM orders t1

JOIN users t2

ON t1.user\_id = t2.user\_id

GROUP BY t2.user\_id

1. Find restaurant with most number of menu items

SELECT r\_name, COUNT(\*) AS 'menu\_items' FROM restaurants t1

JOIN menu t2

ON t1.r\_id = t2.r\_id

GROUP BY t2.r\_id

1. Find number of votes and avg rating for all the restaurants

SELECT r\_name,

COUNT(\*) AS 'num\_votes',

ROUND(AVG(restaurant\_rating), 2) AS 'rating'

FROM orders t1

JOIN restaurants t2

ON t1.r\_id = t2.r\_id

WHERE restaurant\_rating is NOT NULL

GROUP BY t1.r\_id

ORDER BY rating DESC

1. Find the food that is being sold at most number of restaurants

SELECT f\_name, COUNT(\*) AS 'num\_of\_orders'

FROM menu t1

JOIN food t2

ON t1.f\_id = t2.f\_id

GROUP BY t1.f\_id

ORDER BY num\_of\_orders DESC

1. Find restaurant with max revenue in a given month

- We can change the ‘May’ to June or July

-- For May month

SELECT MONTHNAME(DATE(date)), date FROM orders;

SELECT r\_name, SUM(amount) AS 'revenue' FROM orders t1

JOIN restaurants t2

ON t1.r\_id = t2.r\_id

WHERE MONTHNAME(DATE(date)) = 'May'

GROUP BY t1.r\_id

ORDER BY revenue DESC LIMIT 1

1. Find restaurants with sales > x

-- Greater than > 1500

SELECT r\_name, SUM(amount) AS 'revenue'

FROM orders t1

JOIN restaurants t2

ON t1.r\_id = t2.r\_id

GROUP BY t1.r\_id

HAVING revenue > 1500

1. Find customers who have never ordered

-- This is basically A minus B

SELECT user\_id, name FROM users

EXCEPT

SELECT t1.user\_id, name FROM orders t1

JOIN users t2

ON t1.user\_id = t2.user\_id

1. Show order details of a particular customer in a given date range

-- How many orders a particular user has made between 15th May - 15th June

-- Although we gave time as strings MySQL still used it as dates

SELECT t1.order\_id, f\_name, date FROM orders t1

JOIN order\_details t2

ON t1.order\_id = t2.order\_id

JOIN food t3

ON t2.f\_id = t3.f\_id

WHERE user\_id = 1 AND date BETWEEN '2022-05-15' AND '2022-06-15'

1. Customer favorite food

* This is incomplete. Not Solved.
* But we did write this code

SELECT t1.user\_id, t3.f\_id, COUNT(\*) FROM users t1

JOIN orders t2

ON t1.user\_id = t2.user\_id

JOIN order\_details t3

ON t2.order\_id = t3.order\_id

GROUP BY t1.user\_id, t3.f\_id

ORDER BY COUNT(\*) DESC

1. Find most costly restaurants (Avg price/dish)

SELECT r\_name, SUM(price)/COUNT(\*) AS 'Avg\_price' FROM menu t1

JOIN restaurants t2

ON t1.r\_id = t2.r\_id

GROUP BY t1.r\_id

ORDER BY Avg\_price DESC LIMIT 1

1. Find delivery partner compensation using the formula (#deliveries \* 100 + 1000 \* avg\_rating)

SELECT partner\_name, ((COUNT(\*) \* 100) + (AVG(delivery\_rating) \* 1000)) AS 'salary'

FROM orders t1

JOIN delivery\_partner t2

ON t1.partner\_id = t2.partner\_id

GROUP BY t1.partner\_id

ORDER BY salary DESC

1. Find revenue per month for a restaurant

OR

Find the month-by-month revenue for a particular restaurant = kfc

SELECT MONTHNAME(DATE(date)), SUM(amount) AS 'revenue'

FROM orders t1

JOIN restaurants t2

ON t1.r\_id = t2.r\_id

WHERE r\_name = 'kfc'

GROUP BY MONTHNAME(DATE(date))

ORDER BY MONTH(DATE(date))

1. Find correlation between delivery\_time and total rating

* We will solve this later

1. Find correlation between #orders and avg price for all restaurant

* We will solve this later

1. Find all the veg restaurants

SELECT r\_name FROM menu t1

JOIN food t2

ON t1.f\_id = t2.f\_id

JOIN restaurants t3

ON t1.r\_id = t3.r\_id

GROUP BY t1.r\_id

HAVING MIN(type) = 'Veg' AND MAX(type) = 'Veg'

1. Find min and max order value for all the customers

SELECT name, MIN(amount), MAX(amount), AVG(amount) FROM orders t1

JOIN users t2

ON t1.user\_id = t2.user\_id

GROUP BY t1.user\_id