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| **Task No** | **Tasks and Queries** |
| **1** | **Upload Dataset into MySQL**  **Task:**   1. Install MySQL and create a new database (ZomatoDB). 2. Create two tables:    * Zomato\_Restaurants    * Zomato\_Orders 3. Import the **Zomato\_Orders.csv** and **Zomato\_Restaurants.csv** files into MySQL.   **Query:**  create database ZomatoDB;  use ZomatoDB;  select \* from Zomato\_Orders;  select \* from Zomato\_Restaurants;  desc Zomato\_Orders;  desc Zomato\_Restaurants;  **# Zomato Orders Table**  desc Zomato\_Orders;  alter table Zomato\_Orders add constraint unique\_Order\_ID unique (Order\_ID);  alter table Zomato\_Orders modify column Order\_ID varchar(50);  alter table Zomato\_Orders add primary key (Order\_ID);  alter table Zomato\_Orders modify column Restaurant\_ID varchar(50);  alter table Zomato\_Orders modify column Order\_Date datetime;  alter table Zomato\_Orders add foreign key (Restaurant\_ID) references Zomato\_Restaurants (Restaurant\_ID);  **# Zomato Restaurant table**  desc Zomato\_Restaurants;  alter table Zomato\_Restaurants modify column Restaurant\_ID varchar(50);  alter table Zomato\_Restaurants add constraint unique\_Restaurant\_ID unique (Restaurant\_ID);  alter table Zomato\_Restaurants add primary key (Restaurant\_ID); |
| **2 (1.1)** | **Basic Data Cleaning**  **Task: Basic Data Cleaning**  **Query:** create table temp\_table as select distinct \* from Zomato\_Orders;  select \* from temp\_table;  drop table temp\_table;  create table temp\_table as select distinct \* from Zomato\_Restaurants;  select \* from temp\_table;  drop table temp\_table; |
| **2 (1.2)** | **Basic Data Cleaning**  **Task:** Handle NULL values (if any) by replacing them with appropriate values.  **Query:**  select \* from Zomato\_Orders where Order\_id is null  or Restaurant\_ID is null or Order\_Amount is null  or Order\_Date is null or City is null or Area is null;  select \* from Zomato\_Restaurants where Restaurant\_ID is null  or Restaurant\_Name is null or City is null or Area is null; |
| **2 (2.1)** | **Data Exploration Queries**  **Task:** Count the number of restaurants in each city.  **Query:** select city,count(Restaurant\_ID) as Total\_Restaurants  from Zomato\_Restaurants group by city; |
| **2 (2.2)** | **Data Exploration Queries**  **Task:** Find the top 5 cities with the highest number of orders.  **Query:** select city,count(Order\_ID) as Total\_Orders from Zomato\_Orders  group by city order by Total\_Orders desc limit 5; |
| **2 (2.3)** | **Data Exploration Queries**  **Task:** Calculate the total revenue generated by each restaurant.  **Query:** select Restaurant\_ID,sum(Order\_Amount) as Total\_Revenue  from Zomato\_Orders group by Restaurant\_ID; |
| **2 (3.1)** | **Data Aggregation**  **Task:** Find the average order amount for each city.  **Query:** select city,avg(Order\_Amount) as Avg\_order\_amount  from Zomato\_Orders group by city; |
| **2 (3.2)** | **Data Aggregation**  **Task:** Identify the top 5 restaurants with the highest total sales.  **Query:** select Restaurant\_ID,sum(Order\_Amount) as Total\_Sales  from Zomato\_Orders group by Restaurant\_ID  order by Total\_Sales desc limit 5; |
| **2(4)** | **Data Joins**  **Task:** Join the Zomato\_Orders and Zomato\_Restaurants tables to get restaurant names along with order details.  **Query:** select Zomato\_Orders.Restaurant\_ID,Zomato\_Restaurants.Restaurant\_Name, Order\_ID,Order\_Amount,Order\_Date,Zomato\_Orders.City, Zomato\_Orders.Area from Zomato\_Orders join Zomato\_Restaurants  on Zomato\_Orders.Restaurant\_ID=Zomato\_Restaurants.Restaurant\_ID; |
| **2(5)** | **Export the transformed dataset**  **Task:** Save the transformed data as an Excel file.  **Query:** select \* from Zomato\_Orders; select \* from Zomato\_Restaurants; |