Homework 03

Due: Monday 13th October, 11:59 pm

Homework3: (60 points)

The homework assignments are *not* team assignments and must be completed and submitted by each student *individually*.

Note: All queries must be executed in the **DBFiddle** environment. You need to submit a report that includes your **queries**, **a screenshot of the queries in DBFiddle**, and a **screenshot of the corresponding output (table) in DBFiddle**.

1. Imagine you are a sales manager at a company. The company's database stores sales data for each salesperson in the following table, named *sales_performance:*

Table 1: sales_performance

sales_person_id	name	territory	total_sales_value	joining_date
2333	Gregorio	Bavaria	19220	21-Sep-2021
4323	Aaron	London	320000	10-Jan-2018
1113	Sebastian	London	32433	31-Oct-2020
4134	Pierre	Paris	21214	01-Aug-2020

1.1 Write a query to create the "*sales_performance*" table. **(6 points)**

1.2 Write a query to insert the values into this table. **(6 points)**

1.3 Write a query to list salespeople by their ID number in ascending order (i.e. smallest to largest, A-Z, etc.) **(5 points)**

1.4 Write a query to list salespeople ordered by the sales reps' first names. **(5 points)**

1.5 Write a query to list salespeople order by concatenating territory and name in ascending order. **(5 points)**

Hint: use `ORDER BY` CONCAT(Column1, Column2);

2. Assume we have a Customers table which contains the personal details of customers including their name, age, address and salary.

Table 2: Customers

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	Kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	Hyderabad	4500.00
7	Muffy	24	Indore	10000.00

2.1 Write a query to create the Customers table. **(6 points)**

2.2 Write a query to insert values into this table. **(6 points)**

2.3 Write a query to group the records in the CUSTOMERS table by ADDRESS and AGE, find the minimum salary in each group, and filter the groups where the AGE is greater than 25. **(7 points)**

2.4 Write a query to group the records in the CUSTOMERS table by AGE and ADDRESS, filter the groups where the SALARY is less than 5000, and arrange the remaining groups in descending order based on the total salaries of each group. **(7 points)**

2.5 Write a SQL query to list the city of the customers whose average salary is greater than 5240. **(7 points)**

"To become a master in SQL, remember: practice, practice, practice!"