**CS232L - DATABASE MANAGEMENT SYSTEMS LAB**

**Instructor: Ma’am Abinta Date: 17-Feb-2025**

**Lab 03**

**Task 01:**

**Create a table named order\_table with the following columns:**

1. order\_id: the ID of the order
2. total\_amount: the price of the order
3. customer\_id
4. quantity: the quantity ordered
5. order\_date: the date of the order

**Perform the following queries on the table**

1. Identify customers who have placed more than 5 orders and list them along with the total number of orders placed
2. Find the total amount spent by each customer and list them in descending order of total spending
3. Identify products with an average order quantity greater than 10 and list them along with their average order quantity
4. Identify customers who have placed orders with a total amount greater than $1000 and list them along with their total spending

**Lab 04**

**Task 01:**

Create the following two tables:

**Product Table:**

* Columns: product\_id (Primary Key), name, category\_id (Foreign Key), price, quantity\_in\_stock

**Category Table:**

* Columns: category\_id (Primary Key), name

**And perform the following queries on the table:**

1. Insert data in both the tables (atleast 10 rows)
2. Alter the table and update the value of product price where product\_id is 3.
3. Alter the table and add Not Null constraint on price column.
4. Alter the table and enforce unique constraint on product\_id and name.
5. Add a check constraint to ensure that the price of the product is greater than 0.
6. Alter the table and delete all products whose quantity\_in\_stock is less than or equal to 0.
7. Retrieve the data from both the tables together using join.
8. Count the number of products in each category.
9. Add a unique constraint to category name to ensure that categories are not repeated.
10. Drop NOT NULL constraint applied on price column.
11. Drop foreign key constraint applied on category\_id.