

## Lab Assignment-8

Create the following tables: (Primary keys are shown in Bold and italic style)

**Merchant**(***M\_id***, M\_Name, Rating)

**Category** (***Category\_id***, Category)

**Product** (***Product\_id***, Product, Amount, Quantity\_remaining, Category\_id, M\_id)

**Customer** (***Customer\_id***, Name, Password)

**Orders** (***Order\_id***, Customer\_id, Amount, Date, Time)

**Order\_Products**(***Order\_id***, Product\_id, Quantity, M\_id, Original\_amount, Discount, Product\_Rating)

### Merchant

M_id	M_Name	Rating (Out of 5)
1S	Abhay	3.3
2S	Priya	1
3S	Kishan	4.8
4S	Vicky	4.3
5S	Sneha	3.6
6S	Pushpa	2.8

### Category

Category_id	Category
1C	Books
2C	Footwear
3C	Home Décor
4C	Accessories

### Product

Product_id	Product	Amount	Quantity Remaining	Category_id	M_id
1P	The Programming language of	350	4	1C	1S

	ORACLE				
2P	Nike White shoes	7000	2	2C	3S
3P	White Lamp	800	3	3C	5S
4P	Antique Silver Earrings	400	7	4C	2S
5P	Antique Silver Bracelet	700	5	4C	6S
6P	Catwalk leather flats	1599	3	2C	4S
7P	Introduction to Java	650	8	1C	5S
8P	Portico King size bedsheet	1999	1	3C	1S
9P	Book rack	999	7	3C	4S
10P	Artificial Intelligence, 3rd Edition	570	9	1C	2S
11P	Introduction to python	630	10	1C	5S

**A) Write a script to create the tables with the required constraints like primary key, foreign key, check constraint (not null, range, >0, etc.).**

**B) Write a script to add rows as mentioned above. And also add rows into Orders and Order\_Products tables.**

**C) Write the SQL queries for the following. After successful execution of query, add it to the script, where all queries are available for the submission:**

1. Display the lowest sold product details.
2. Add a new seller with all details.
3. Add a new product with all details.
4. Add a new category with all details.
5. Display the details of the products which have never sold.
6. Display the details of the merchant who has not sold any product today.
7. Display the details of the merchant who has sold the highest amount of products today.

8. Display the merchant details with the highest rating.
9. Display the customer detail who has repeated the same product purchase in the last four months.
10. Display the merchant details who is third highest in selling products in the last two months.
11. Display the list of products having quantity remaining  $\leq 5$ .
12. Add a new column "Address" to the merchant table.
13. Create a table Old\_Orders from the Orders table.
14. Insert values from Orders table to Old\_Orderss having year < current year.