

Project Title:

## **E-Store Database Management**

### **OBJECTIVE:**

To design and implement a relational database system for managing product details and orders details. The system aims to streamline the management of Order details, Customer details and product details.

### **TECHNOLOGIES USED:**

- Database Management System: PostgreSQL / Oracle.
- SQL for querying and manipulating the database.
- PL/SQL for stored procedures and functions.

### **PROJECT DESCRIPTION:**

The E- Store Database Management is a comprehensive database application designed to manage various aspects of a store operations. The database will store information about customers, orders and product details allowing for efficient retrieval and management of data.

### **KEY FEATURES:**

#### **1. Customer Management:**

- a. Store details of customers including customer ID, name and contact information.
- b. Implement functionalities to add new customers, update customer information, and manage customer details.

#### **2. Order Management:**

- a. Store order information such as order ID, order list, order date and payment mode.
- b. Implement functionalities to add new orders and update order details.

#### **3. Product Management:**

- a. Store product details including product ID, name, brand, price and rating..
- b. Implement functionalities to add new products, update product information, and manage discount offerings.

## **DATABASE SCHEMA DESIGN:**

- **Customers Table:**
  - **Customer ID(Primary Key)**
  - Name
  - Contact number
- **Orders Table:**
  - **Order ID(Primary Key)**
  - Order list
  - Order date
  - Payment mode
  - **Customer ID(Foreign Key)**
- **Products Table:**
  - **Product ID(Primary Key)**
  - Name
  - Brand
  - Price
  - Rating

## SAMPLE SQL QUERIES :

### 1.Retrieve matching data from customers table and orders table using joins:

**SQL>** select \* from customers c left outer join orders o on c.cus\_id=o.cus\_id;

**OUTPUT>**

CUS_ID	NAME	CONTACT_NO	Ord_ID	CUS_ID	ORD_DETAILS	ORD_DATE	ORD_PAYMENT
====	====	=====	=====	====	=====	=====	=====
300	Riya	7598462577	1040	300	Women shoes	2024-06-01	COD
301	Diya	9847562845	1041	301	Men shirt	2024-06-14	COD
302	Siya	8456966147	1042	302	Handbags,Men shirt	2024-06-15	Online
303	Piya	9647583211	1043	303	Women shoes	2024-06-27	COD
300	Riya	7598462577	1044	300	Handbags	2024-06-01	COD

### 2. Retrieve data by Case Expression:

**SQL>** select \* from select p\_name,p\_brand,p\_rating ,  
case  
when P\_rating >=4 then 'High rated product'  
else "Low rated product"  
end as p\_rates from products;

**OUTPUT>**

PRO_ID	NAME	BRAND	RATING	RATES
=====	=====	=====	=====	=====
101	Women shoes	Red tape	4.1	High rated product
102	Women tops	zara	3.9	Low rated product
103	Men shirt	H & M	4	High rated product
104	Handbags	Mango	2.9	Low rated product

## CONCLUSION:

This E - Store Management project demonstrates ability to design and implement a relational database, write complex SQL queries, and manage various store operations.