ASSIGNMENT – 3

DBMS
ACCESSI-SPHERE
——

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INTRODUCTION

Implementing the Database Schema and Integrity Constraints, and Populating data satisfying them

New Entity added

Cart table added which stored product_id and their quantity

Columns added/ renamed

1. Drop table each time before creating table to avoid errors
2. Renamed the table order to orderTable as order is a SQL keyword
3. Added column - OrderStatus in ordertable
4. Added column - OrderDate in ordertable
5. Added userId as foreign key in loginCredentials table
6. Added deliveryworker tables's ID as foreign key in ordertable
7. Added supplier tables's SUPPLIER_ID as foreign key in ordertable
8. Added user id as foreign key in PremiumMembers table
9. Added supplier tables's SUPPLIER_ID as foreign key in product

1. SQL QUERIES for creating database and tables

```sql
CREATE DATABASE if not exists ACCESSISPHERE;
USE ACCESSISPHERE;

CREATE TABLE  if not exists Users (
    UserID int PRIMARY KEY not null,
    name varchar(255) not null,
    Age int,
    PhoneNumber1 bigint not null,
    EmailAddress1 varchar(255) not null,
    EmailAddress2 varchar(255) not null,
    State varchar(255) not null,
    City varchar(255) not null,
    Street varchar(255) not null,
    ApartmentNo varchar(255) not null,
    Pincode varchar(255) not null,
    Landmark varchar(255)
);

-- DROP TABLE IF EXISTS premiummember;
CREATE TABLE if not exists premiummember (
    MembershipID INT PRIMARY KEY not null,
    Duration INT not null,
    TransactionID INT not null,
    UserID int not null ,
    foreign key (UserID) references Users(UserID)
);

-- DROP TABLE IF EXISTS admin;
CREATE TABLE if not exists Admin (
    FirstName VARCHAR(255) not null,
    LastName VARCHAR(255) ,
    AdminID INT PRIMARY KEY,
```

```sql
    Password VARCHAR(255) not null
);


-- DROP TABLE IF EXISTS ngos;--
CREATE TABLE if not exists NGOs (
    Name VARCHAR(255) not null,
    CompanyID INT PRIMARY KEY,
    Description TEXT,
    Email VARCHAR(255) not null,
    Address TEXT,
    ContactNumber VARCHAR(20)not null
);


-- DROP TABLE IF EXISTS cart;
CREATE TABLE if not exists Cart(
 cart_id int primary key  ,
 productID int,
 Quantity int -- Remove the comma here
 -- engine = InnoDB  Add this line--
 );


CREATE TABLE if not exists OrderTable (

    OrderID INT PRIMARY KEY Not null,
    Cart_id int not null,
    foreign key (Cart_id) references Cart(cart_ID),
    Discount FLOAT,
    Price FLOAT,
    State VARCHAR(50),
    City VARCHAR(50),
    PaymentMode VARCHAR(50),
```

```
    Street TEXT,
    Pincode INT,
    TransactionID INT,
    ProductAmount FLOAT,
    DeliveryworkerID int not null,
    SupplierID int not null,
    UserID int,
    foreign key (DeliveryworkerID)references DeliveryWorker(ID),
    foreign key (SupplierID) references Supplier(SupplierID),
    foreign key (UserID) references Users(UserID) ,
    OrderDate date NOT NULL,
    OrderStatus varchar(255)
     -- Add this line
);


-- DROP TABLE IF EXISTS `logincredentials`;
CREATE TABLE if not exists LoginCredentials(
UserID int not null,
Username varchar (50) primary key not null ,
foreign key (UserID) references Users(UserID) ,
Password varchar (50) not null );

CREATE TABLE if not exists DeliveryWorker(
ID int primary key not null ,
workerName varchar (50) not null ,
Age int not null ,
City varchar (50) not null ,
State varchar (50) not null ,
Street text ,
Pincode int ,
Product text ,
```

```sql
    Email varchar (100) ,
    Phone_number varchar (15) ,
    License_code text ,
    UPI_ID varchar(100) ,
    Salary float
    );



-- DROP TABLE IF EXISTS productreview;
 CREATE TABLE if not exists ProductReview(
    UserID int not null,
    foreign key (UserID) references Users(UserID) ,
    Rating float not null ,
    Review_ID int
 );


CREATE TABLE if not exists Cart(
cart_id int primary key   ,
 foreign key (productID) references product(Product_ID) ,
 Quantity int
 );


-- DROP TABLE IF EXISTS product;
CREATE TABLE if not exists Product(
    Product_ID int primary key not null ,
    Name text  not null  ,
    Description text ,
    SupplierID int not null,
    foreign key (SupplierID) references Supplier(SupplierID),
    Company_name text not null ,
    Category text ,
    Status boolean
```

```
  );

  CREATE Table if not exists Supplier(
  Name Text,
  SupplierID int Primary Key Not Null,
  State Text Not Null,
  City Text Not Null,
  Street Text Not Null,
  Appartmentnumber Int ,
Phone_number varchar (15) ,
AccountNumber bigint    ,
IFSCcode int ,
UPI_id varchar(100)
  );
```

2. Tables Created

1. **Users** (UserID int PRIMARY KEY not null, name varchar(255) not null, Age int, PhoneNumber1 int not null, EmailAddress1 varchar(255) not null, EmailAddress2 varchar(255) not null, State varchar(255) not null, City varchar(255) not null, Street varchar(255) not null, ApartmentNo varchar(255) not null, Pincode varchar(255) not null, Landmark varchar(255))

2. **PremiumMember**(MembershipID INT PRIMARY KEY not null, Duration INT not null, TransactionID INT not null, UserID int FOREIGN KEY not null)

3. **Admin**(FirstName VARCHAR(255) not null, LastName VARCHAR(255), AdminID INT PRIMARY KEY, Password VARCHAR(255) not null)

4. **NGOs**(Name VARCHAR(255) not null, CompanyID INT PRIMARY KEY, Description TEXT, Email VARCHAR(255) not null, Address TEXT, ContactNumber VARCHAR(20) not null)

5. **OrderTable**(OrderID INT PRIMARY KEY Not null, Cart_id int FOREIGN KEY, Discount FLOAT, Price FLOAT, State VARCHAR(50), City VARCHAR(50), PaymentMode VARCHAR(50), Street TEXT, Pincode INT, TransactionID INT, ProductAmount FLOAT, Deliveryworker int FOREIGN KEY, SupplierID int FOREIGN KEY, UserID int FOREIGN KEY, OrderDate date NOT NULL, Status varchar(255))

6. **ReviewReply**(ReplyID int PRIMARY KEY, ReplyDate DATE NOT NULL, Rating int NOT NULL, Review_ID int NOT NULL)

7. **LoginCredentials**(Username varchar (50) PRIMARY KEY not null, UserID int FOREIGN KEY, Password varchar (50) not null)

8. **DeliveryWorker**(ID int PRIMARY KEY not null, workerName varchar (50) not null, Age int not null, City varchar (50) not null, State varchar (50) not null, Street text, Pincode int, Product text, Email varchar (100), Phone_number varchar (15), License_code text, UPI_ID text, Salary float)

9. **ProductReview**(UserID int PRIMARY KEY not null, Rating float not null, Review_ID int)

10. **Cart**(cart_id int PRIMARY KEY, productID int FOREIGN KEY, Quantity int)

11. **Product**(Product_ID int PRIMARY KEY not null, Name text not null, Description text, SupplierID int FOREIGN KEY, Company_name text not null, Category text, Status boolean)

12. **Supplier**(Name Text, SupplierID int PRIMARY KEY Not Null, State Text Not Null, City Text Not Null, Street Text Not Null, Appartmentnumber Int, Phone_number varchar (15), AccountNumber int, IFSCcode int, UPI_id int)

Data population

Most of the stimulated data for the main entities was generated via bing AI, this refers to the data that was inserted into the tables.

SQL QUERIES for inserting data into tables

```
-- Insert values into Users table

INSERT INTO Users (UserID, name, Age, PhoneNumber1, EmailAddress1,
EmailAddress2, State, City, Street, ApartmentNo, Pincode, Landmark)

VALUES

(1, 'Rajesh Kumar', 25, 9876543210, 'rajesh@gmail.com', 'rajesh@yahoo.com',
'Delhi', 'New Delhi', '123 Main Street', '101', '110001', 'Near Post
Office'),

(2, 'Priya Sharma', 24, 8765432109, 'priya@gmail.com', 'priya@hotmail.com',
'Delhi', 'New Delhi', '456 Park Avenue', '102', '110002', 'Opposite Park'),

(3, 'Vikram Singh', 26, 7654321098, 'vikram@gmail.com',
'vikram@outlook.com', 'Delhi', 'New Delhi', '789 Market Road', '103',
'110003', 'Next to Mall'),

(4, 'Anjali Gupta', 23, 6543210987, 'anjali@gmail.com', 'anjali@gmail.com',
'Delhi', 'New Delhi', '101 Hill Street', '104', '110004', 'Near Temple'),

(5, 'Ravi Verma', 27, 5432109876, 'ravi@gmail.com', 'ravi@gmail.com',
'Delhi', 'New Delhi', '102 Lake View', '105', '110005', 'Beside Lake'),

(6, 'Pooja Patel', 22, 4321098765, 'pooja@gmail.com', 'pooja@gmail.com',
'Delhi', 'New Delhi', '103 Garden Lane', '106', '110006', 'Behind Garden'),

(7, 'Amit Shah', 28, 3210987654, 'amit@gmail.com', 'amit@gmail.com',
'Delhi', 'New Delhi', '104 River Side', '107', '110007', 'Near Bridge'),

(8, 'Neha Jain', 21, 2109876543, 'neha@gmail.com', 'neha@gmail.com',
'Delhi', 'New Delhi', '105 Forest Road', '108', '110008', 'Inside Forest'),

(9, 'Suresh Mehta', 29, 1098765432, 'suresh@gmail.com', 'suresh@gmail.com',
'Delhi', 'New Delhi', '106 Sky Tower', '109', '110009', 'On Top Floor'),

(10, 'Reena Roy', 20, 0987654321, 'reena@gmail.com', 'reena@gmail.com',
'Delhi', 'New Delhi', '107 Sunshine Plaza', '110', '110010', 'In Front of
Plaza'),

(11, 'Rajesh Kumar', 25, 9876543210, 'rajesh@gmail.com', 'rajesh@yahoo.com',
'Delhi', 'New Delhi', '123 Main Street', '101', '110001', 'Near Post
Office'),

 (12, 'Priya Sharma', 24, 8765432109, 'priya@gmail.com',
'priya@hotmail.com', 'Delhi', 'New Delhi', '456 Park Avenue', '102',
'110002', 'Opposite Park'),
```

```
 (13, 'Vikram Singh', 26, 7654321098, 'vikram@gmail.com',
'vikram@outlook.com', 'Delhi', 'New Delhi', '789 Market Road', '103',
'110003', 'Next to Mall'),

 (14, 'Anjali Gupta', 23, 6543210987, 'anjali@gmail.com',
'anjali@gmail.com', 'Delhi', 'New Delhi', '101 Hill Street', '104',
'110004', 'Near Temple'),

 (15, 'Ravi Verma', 27, 5432109876, 'ravi@gmail.com', 'ravi@gmail.com',
'Delhi', 'New Delhi', '102 Lake View', '105', '110005', 'Beside Lake'),

 (16, 'Pooja Patel', 22, 4321098765, 'pooja@gmail.com', 'pooja@gmail.com',
'Delhi', 'New Delhi', '103 Garden Lane', '106', '110006', 'Behind Garden'),

 (17, 'Amit Shah', 28, 3210987654, 'amit@gmail.com', 'amit@gmail.com',
'Delhi', 'New Delhi', '104 River Side', '107', '110007', 'Near Bridge'),

 (18, 'Neha Jain', 21, 2109876543, 'neha@gmail.com', 'neha@gmail.com',
'Delhi', 'New Delhi', '105 Forest Road', '108', '110008', 'Inside Forest'),

 (19, 'Suresh Mehta', 29, 1098765432, 'suresh@gmail.com',
'suresh@gmail.com', 'Delhi', 'New Delhi', '106 Sky Tower', '109', '110009',
'On Top Floor'),

 (20, 'Reena Roy', 20, 0987654321, 'reena@gmail.com', 'reena@gmail.com',
'Delhi', 'New Delhi', '107 Sunshine Plaza', '110', '110010', 'In Front of
Plaza');


-- Insert values into PremiumMember table

INSERT INTO PremiumMember (MembershipID, Duration, TransactionID, UserID)

VALUES

(1, 12, 1001, 1),

(2, 6, 1002, 2),

(3, 3, 1003, 3),

(4, 12, 1004, 4),

(5, 6, 1005, 5),

(6, 3, 1006, 6),

(7, 12, 1007, 7),

(8, 6, 1008, 8),

(9, 3, 1009, 9),
```

```
(10, 12, 1010, 10);


INSERT INTO Admin (FirstName, LastName, AdminID, Password)

VALUES

('Swarnima', 'Prasad', 1, 'password1'),

('Palak', 'Bhardwaj', 2, 'password2');


-- Insert values into NGOs table

INSERT INTO NGOs (Name, CompanyID, Description, Email, Address,
ContactNumber)

VALUES

('Access for All', 1, 'A non-profit organization that promotes accessibility
and inclusion for people with disabilities', 'accessforall@gmail.com', '123
Main Street, New Delhi, 110001', '011-23456789'),

('Enable India', 2, 'A social enterprise that provides employment
opportunities and training for people with disabilities',
'enableindia@gmail.com', '456 Park Avenue, New Delhi, 110002',
'011-34567890'),

('Samarthya', 3, 'A charity that provides education and rehabilitation for
children with disabilities', 'samarthya@gmail.com', '789 Market Road, New
Delhi, 110003', '011-45678901'),

('Nayi Disha', 4, 'A platform that connects families of people with
intellectual and developmental disabilities with resources and support',
'nayidisha@gmail.com', '101 Hill Street, New Delhi, 110004',
'011-56789012'),

('Saksham', 5, 'An organization that empowers people with visual impairment
through technology and advocacy', 'saksham@gmail.com', '102 Lake View, New
Delhi, 110005', '011-67890123'),

('Muskaan', 6, 'A foundation that works for the welfare and integration of
people with Down syndrome', 'muskaan@gmail.com', '103 Garden Lane, New
Delhi, 110006', '011-78901234'),

('AADI', 7, 'An institute that provides comprehensive services for people
with physical and multiple disabilities', 'aadi@gmail.com', '104 River Side,
New Delhi, 110007', '011-89012345'),
```

('Shishu Sarothi', 8, 'A centre that offers education, therapy, and legal aid for children with disabilities', 'shishusarothi@gmail.com', '105 Forest Road, New Delhi, 110008', '011-90123456'),

('Vidya Sagar', 9, 'A network that supports the rights and dignity of people with neurological and developmental disabilities', 'vidyasagar@gmail.com', '106 Sky Tower, New Delhi, 110009', '011-01234567'),

('Ummeed', 10, 'A team that provides early intervention and therapy for children with developmental disabilities', 'ummeed@gmail.com', '107 Sunshine Plaza, New Delhi, 110010', '011-12345678');


```sql
-- DELETE FROM Cart WHERE cart_id BETWEEN 1 AND 10;
```

INSERT INTO Cart (cart_id, productID, quantity)

VALUES

(1, 1, 1),

(2, 2, 2),

(3, 3, 3),

(4, 4, 4),

(5, 5, 5),

(6, 6, 6),

(7, 7, 7),

(8, 8, 8),

(9, 9, 9),

(10, 10, 10);

INSERT INTO Supplier (Name, SupplierID, State, City, Street, Appartmentnumber, Phone_number, AccountNumber, IFSCcode, UPI_id)

VALUES

('WheelCo', 1, 'Delhi', 'New Delhi', '123 Main Street', 101, '9876543210', 111, 111111, 'wheelco@upi'),

('CrutchCo', 2, 'Delhi', 'New Delhi', '456 Park Avenue', 102, '8765432109', 223, 222222, 'crutchco@upi'),

```
('HearCo', 3, 'Delhi', 'New Delhi', '789 Market Road', 103, '7654321098',
344, 333333, 'hearco@upi'),

('BrailleCo', 4, 'Delhi', 'New Delhi', '101 Hill Street', 104, '6543210987',
433, 444444, 'brailleco@upi'),

('StickCo', 5, 'Delhi', 'New Delhi', '102 Lake View', 105, '5432109876',
598, 555555, 'stickco@upi'),

('MagnifyCo', 6, 'Delhi', 'New Delhi', '103 Garden Lane', 106, '4321098765',
698, 666666, 'magnifyco@upi'),

('SpeakCo', 7, 'Delhi', 'New Delhi', '104 River Side', 107, '3210987654',
789, 777777, 'speakco@upi'),

('CaneCo', 8, 'Delhi', 'New Delhi', '105 Forest Road', 108, '2109876543',
889, 888888, 'caneco@upi'),

('ProstheticCo', 9, 'Delhi', 'New Delhi', '106 Sky Tower', 109,
'1098765432', 919, 999999, 'prostheticco@upi'),

('GlassCo', 10, 'Delhi', 'New Delhi', '107 Sunshine Plaza', 110,
'0987654321', 122, 101010, 'glassco@upi');


INSERT INTO DeliveryWorker (ID, workerName, Age, City, State, Street,
Pincode, Product, Email, Phone_number, License_code, UPI_ID, Salary)

VALUES

(1, 'Rajesh Kumar', 25, 'New Delhi', 'Delhi', '123 Main Street', 110001,
'Wheelchair', 'rajesh@gmail.com', '9876543210', 'DL-1234', 'rajesh@upi',
20000),

(2, 'Priya Sharma', 24, 'New Delhi', 'Delhi', '456 Park Avenue', 110002,
'Crutches', 'priya@gmail.com', '8765432109', 'DL-2345', 'priya@upi', 18000),

(3, 'Vikram Singh', 26, 'New Delhi', 'Delhi', '789 Market Road', 110003,
'Hearing Aid', 'vikram@gmail.com', '7654321098', 'DL-3456', 'vikram@upi',
21000),

(4, 'Anjali Gupta', 23, 'New Delhi', 'Delhi', '101 Hill Street', 110004,
'Braille Keyboard', 'anjali@gmail.com', '6543210987', 'DL-4567',
'anjali@upi', 17000),

(5, 'Ravi Verma', 27, 'New Delhi', 'Delhi', '102 Lake View', 110005,
'Walking Stick', 'ravi@gmail.com', '5432109876', 'DL-5678', 'ravi@upi',
19000),

(6, 'Pooja Patel', 22, 'New Delhi', 'Delhi', '103 Garden Lane', 110006,
'Magnifier', 'pooja@gmail.com', '4321098765', 'DL-6789', 'pooja@upi', 16000),
```

(7, 'Amit Shah', 28, 'New Delhi', 'Delhi', '104 River Side', 110007, 'Speech Synthesizer', 'amit@gmail.com', '3210987654', 'DL-7890', 'amit@upi', 22000),

(8, 'Neha Jain', 21, 'New Delhi', 'Delhi', '105 Forest Road', 110008, 'Cane', 'neha@gmail.com', '2109876543', 'DL-8901', 'neha@upi', 15000),

(9, 'Suresh Mehta', 29, 'New Delhi', 'Delhi', '106 Sky Tower', 110009, 'Prosthetic Limb', 'suresh@gmail.com', '1098765432', 'DL-9012', 'suresh@upi', 23000),

(10, 'Reena Roy', 20, 'New Delhi', 'Delhi', '107 Sunshine Plaza', 110010, 'Glasses', 'reena@gmail.com', '0987654321', 'DL-0123', 'reena@upi', 14000);

INSERT INTO Product (Product_ID, Name, Description, Company_name, Category, Status,SupplierID)

VALUES

(1, 'Wheelchair', 'A chair with wheels that can be propelled by the user or an attendant', 'WheelCo', 'Mobility', true,1),

(2, 'Crutches', 'A pair of supports that help a person to walk with an injured leg or foot', 'CrutchCo', 'Mobility', true,2),

(3, 'Hearing Aid', 'A device that amplifies sound for a person with hearing loss', 'HearCo', 'Hearing', true,3),

(4, 'Braille Keyboard', 'A keyboard that allows a person with visual impairment to type in braille', 'BrailleCo', 'Vision', true,1),

(5, 'Walking Stick', 'A stick that helps a person to balance or walk', 'StickCo', 'Mobility', true,2),

(6, 'Magnifier', 'A device that enlarges the appearance of an object for a person with low vision', 'MagnifyCo', 'Vision', true,3),

(7, 'Speech Synthesizer', 'A device that converts text to speech for a person with speech impairment', 'SpeakCo', 'Speech', true,3),

(8, 'Cane', 'A long stick with a curved handle that helps a person to walk', 'CaneCo', 'Mobility', true,3),

(9, 'Prosthetic Limb', 'An artificial limb that replaces a missing one', 'ProstheticCo', 'Mobility', true,3),

(10, 'Glasses', 'A pair of lenses that correct a person vision', 'GlassCo', 'Vision', true,3);

-- Insert values into OrderTable table

```
INSERT INTO OrderTable (OrderID, Cart_id, Discount, Price, State, City,
PaymentMode, Street, Pincode, TransactionID, ProductAmount,
DeliveryworkerID, SupplierID, UserID, OrderDate, OrderStatus)

VALUES

(1, 1, 0.1, 5000, 'Delhi', 'New Delhi', 'Cash', '123 Main Street', 110001,
1001, 9000, 1, 1, 1, '2024-02-11', 'Delivered'),

(2, 2, 0.2, 10000, 'Delhi', 'New Delhi', 'Card', '456 Park Avenue', 110002,
1002, 8000, 2, 2, 2, '2024-02-11', 'Delivered'),

(3, 3, 0.15, 3000, 'Delhi', 'New Delhi', 'UPI', '789 Market Road', 110003,
1003, 7650, 3, 3, 3, '2024-02-11', 'Delivered'),

(4, 4, 0.05, 2000, 'Delhi', 'New Delhi', 'Cash', '101 Hill Street', 110004,
1004, 7600, 4, 4, 4, '2024-02-11', 'Delivered'),

(5, 5, 0.1, 1000, 'Delhi', 'New Delhi', 'Card', '102 Lake View', 110005,
1005, 4500, 5, 5, 5, '2024-02-11', 'Delivered'),

(6, 6, 0.2, 500, 'Delhi', 'New Delhi', 'UPI', '103 Garden Lane', 110006,
1006, 2400, 6, 6, 6, '2024-02-11', 'Delivered'),

(7, 7, 0.15, 100, 'Delhi', 'New Delhi', 'Cash', '104 River Side', 110007,
1007, 595, 7, 7, 7, '2024-02-11', 'Delivered'),

(8, 8, 0.05, 50, 'Delhi', 'New Delhi', 'Card', '105 Forest Road', 110008,
1008, 380, 8, 8, 8, '2024-02-11', 'Delivered'),

(9, 9, 0.05, 50, 'Delhi', 'New Delhi', 'Card', '10 Road', 110008, 1008, 380,
8, 8, 8, '2024-02-11', 'Delivered'),

(10, 10, 0.05, 50, 'Delhi', 'New Delhi', 'Card', '1 Road', 110808, 1008,
380, 8, 8, 8, '2094-02-11', 'Delivered');
```

```
INSERT INTO ReviewReply (ReplyID, ReplyDate, Rating, Review_ID)

VALUES

(1, '2024-02-01', 5, 1),

(2, '2024-02-02', 4, 2),

(3, '2024-02-03', 3, 3),

(4, '2024-02-04', 2, 4),
```

```
(5, '2024-02-05', 1, 5),

(6, '2024-02-06', 4, 6),

(7, '2024-02-07', 3, 7),

(8, '2024-02-08', 2, 8),

(9, '2024-02-09', 1, 9),

(10, '2024-02-10', 5, 10);


INSERT INTO LoginCredentials (Username, UserID, Password)

VALUES

('rajesh', 1, 'rajesh123'),

('priya', 2, 'priya456'),

('vikram', 3, 'vikram789'),

('anjali', 4, 'anjali101'),

('ravi', 5, 'ravi202'),

('pooja', 6, 'pooja303'),

('amit', 7, 'amit404'),

('neha', 8, 'neha505'),

('suresh', 9, 'suresh606'),

('reena', 10, 'reena707');



INSERT INTO ProductReview (UserID, Rating, Review_ID)

VALUES

(1, 4.5, 1),

(2, 3.5, 2),

(3, 4.0, 3),

(4, 2.5, 4),
```

```
(5, 3.0, 5),

(6, 4.5, 6),

(7, 3.5, 7),

(8, 4.0, 8),

(9, 2.5, 9),

(10, 3.0, 10);
```

Tables with inserted Values (For reference)

Admin

	FirstName	LastName	AdminID	Password
▶	Swarnima	Prasad	1	password1
	Palak	Bhardwaj	2	password2
*	NULL	NULL	NULL	NULL

Cart

	cart_id	productID	Quantity
▶	1	1	1
	2	2	2
	3	3	3
	4	4	4
	5	5	5
	6	6	6
	7	7	7
	8	8	8
	9	9	9
	10	10	10

DeliveryWorker

ID	workerName	Age	City	State	Street	Pincode	Product	Email	Phone_number	License_code	UPI_ID	Salary
1	Rajesh Kumar	25	New Delhi	Delhi	123 Main Street	110001	Wheelchair	rajesh@gmail.com	9876543210	DL-1234	rajesh@upi	20000
2	Priya Sharma	24	New Delhi	Delhi	456 Park Avenue	110002	Crutches	priya@gmail.com	8765432109	DL-2345	priya@upi	18000
3	Vikram Singh	26	New Delhi	Delhi	789 Market Road	110003	Hearing Aid	vikram@gmail.com	7654321098	DL-3456	vikram@upi	21000
4	Anjali Gupta	23	New Delhi	Delhi	101 Hill Street	110004	Braille Keyboard	anjali@gmail.com	6543210987	DL-4567	anjali@upi	17000
5	Ravi Verma	27	New Delhi	Delhi	102 Lake View	110005	Walking Stick	ravi@gmail.com	5432109876	DL-5678	ravi@upi	19000
6	Pooja Patel	22	New Delhi	Delhi	103 Garden Lane	110006	Magnifier	pooja@gmail.com	4321098765	DL-6789	pooja@upi	16000
7	Amit Shah	28	New Delhi	Delhi	104 River Side	110007	Speech Synthesizer	amit@gmail.com	3210987654	DL-7890	amit@upi	22000
8	Neha Jain	21	New Delhi	Delhi	105 Forest Road	110008	Cane	neha@gmail.com	2109876543	DL-8901	neha@upi	15000
9	Suresh Mehta	29	New Delhi	Delhi	106 Sky Tower	110009	Prosthetic Limb	suresh@gmail.com	1098765432	DL-9012	suresh@upi	23000
10	Reena Roy	20	New Delhi	Delhi	107 Sunshine Plaza	110010	Glasses	reena@gmail.com	0987654321	DL-0123	reena@upi	14000

Login Credentials

UserID	Username	Password
7	amit	amit404
4	anjali	anjali101
8	neha	neha505
6	pooja	pooja303
2	priya	priya456
1	rajesh	rajesh123
5	ravi	ravi202
10	reena	reena707
9	suresh	suresh606
3	vikram	vikram789

NGOS

Name	CompanyID	Description	Email	Address	ContactNumber
Access for All	1	A non-profit organization that promotes accessi...	accessforall@gmail.com	123 Main Street, New Delhi, 110001	011-23456789
Enable India	2	A social enterprise that provides employment o...	enableindia@gmail.com	456 Park Avenue, New Delhi, 110002	011-34567890
Samarthya	3	A charity that provides education and rehabilita...	samarthya@gmail.com	789 Market Road, New Delhi, 110003	011-45678901
Nayi Disha	4	A platform that connects families of people with...	nayidisha@gmail.com	101 Hill Street, New Delhi, 110004	011-56789012
Saksham	5	An organization that empowers people with visu...	saksham@gmail.com	102 Lake View, New Delhi, 110005	011-67890123
Muskaan	6	A foundation that works for the welfare and int...	muskaan@gmail.com	103 Garden Lane, New Delhi, 110006	011-78901234
AADI	7	An institute that provides comprehensive servic...	aadi@gmail.com	104 River Side, New Delhi, 110007	011-89012345
Shishu Sarothi	8	A centre that offers education, therapy, and le...	shishusarothi@gmail.com	105 Forest Road, New Delhi, 110008	011-90123456
Vidya Sagar	9	A network that supports the rights and dignity ...	vidyasagar@gmail.com	106 Sky Tower, New Delhi, 110009	011-01234567
Ummeed	10	A team that provides early intervention and the...	ummeed@gmail.com	107 Sunshine Plaza, New Delhi, 110010	011-12345678

Order Table

OrderID	Cart_id	Discount	Price	State	City	PaymentMode	Street	Pincode	TransactionID	ProductAmount	DeliveryworkerID	SupplierID	UserID	OrderDate	OrderStatus
1	1	0.1	5000	Delhi	New Delhi	Cash	123 Main Street	110001	1001	9000	1	1	1	2024-02-11	Delivered
2	2	0.2	10000	Delhi	New Delhi	Card	456 Park Avenue	110002	1002	8000	2	2	2	2024-02-11	Delivered
3	3	0.15	3000	Delhi	New Delhi	UPI	789 Market Road	110003	1003	7650	3	3	3	2024-02-11	Delivered
4	4	0.05	2000	Delhi	New Delhi	Cash	101 Hill Street	110004	1004	7600	4	4	4	2024-02-11	Delivered
5	5	0.1	1000	Delhi	New Delhi	Card	102 Lake View	110005	1005	4500	5	5	5	2024-02-11	Delivered
6	6	0.2	500	Delhi	New Delhi	UPI	103 Garden Lane	110006	1006	2400	6	6	6	2024-02-11	Delivered
7	7	0.15	100	Delhi	New Delhi	Cash	104 River Side	110007	1007	595	7	7	7	2024-02-11	Delivered
8	8	0.05	50	Delhi	New Delhi	Card	105 Forest Road	110008	1008	380	8	8	8	2024-02-11	Delivered
9	9	0.05	50	Delhi	New Delhi	Card	10 Road	110008	1008	380	8	8	8	2024-02-11	Delivered
10	10	0.05	50	Delhi	New Delhi	Card	1 Road	110808	1008	380	8	8	8	2094-02-11	Delivered

Premium Member

MembershipID	Duration	TransactionID	UserID
1	12	1001	1
2	6	1002	2
3	3	1003	3
4	12	1004	4
5	6	1005	5
6	3	1006	6
7	12	1007	7
8	6	1008	8
9	3	1009	9
10	12	1010	10

Product

Product_ID	Name	Description	SupplierID	Company_name	Category	Status
1	Wheelchair	A chair with wheels that can be propelled by th...	1	WheelCo	Mobility	1
2	Crutches	A pair of supports that help a person to walk wi...	2	CrutchCo	Mobility	1
3	Hearing Aid	A device that amplifies sound for a person with ...	3	HearCo	Hearing	1
4	Braille Keyboard	A keyboard that allows a person with visual imp...	1	BrailleCo	Vision	1
5	Walking Stick	A stick that helps a person to balance or walk	2	StickCo	Mobility	1
6	Magnifier	A device that enlarges the appearance of an ob...	3	MagnifyCo	Vision	1
7	Speech Synthesizer	A device that converts text to speech for a per...	3	SpeakCo	Speech	1
8	Cane	A long stick with a curved handle that helps a p...	3	CaneCo	Mobility	1
9	Prosthetic Limb	An artificial limb that replaces a missing one	3	ProstheticCo	Mobility	1
10	Glasses	A pair of lenses that correct a person vision	3	GlassCo	Vision	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Product Review

UserID	Rating	Review_ID
1	4.5	1
2	3.5	2
3	4	3
4	2.5	4
5	3	5
6	4.5	6
7	3.5	7
8	4	8
9	2.5	9
10	3	10

ReviewReply

ReplyID	ReplyDate	Rating	Review_ID
1	2024-02-01	5	1
2	2024-02-02	4	2
3	2024-02-03	3	3
4	2024-02-04	2	4
5	2024-02-05	1	5
6	2024-02-06	4	6
7	2024-02-07	3	7
8	2024-02-08	2	8
9	2024-02-09	1	9
10	2024-02-10	5	10
NULL	NULL	NULL	NULL

Supplier

Name	SupplierID	State	City	Street	Appartmentnumber	Phone_number	AccountNumber	IFSCcode	UPI_id
WheelCo	1	Delhi	New Delhi	123 Main Street	101	9876543210	111	111111	wheelco@upi
CrutchCo	2	Delhi	New Delhi	456 Park Avenue	102	8765432109	223	222222	crutchco@upi
HearCo	3	Delhi	New Delhi	789 Market Road	103	7654321098	344	333333	hearco@upi
BrailleCo	4	Delhi	New Delhi	101 Hill Street	104	6543210987	433	444444	brailleco@upi
StickCo	5	Delhi	New Delhi	102 Lake View	105	5432109876	598	555555	stickco@upi
MagnifyCo	6	Delhi	New Delhi	103 Garden Lane	106	4321098765	698	666666	magnifyco@upi
SpeakCo	7	Delhi	New Delhi	104 River Side	107	3210987654	789	777777	speakco@upi
CaneCo	8	Delhi	New Delhi	105 Forest Road	108	2109876543	889	888888	caneco@upi
ProstheticCo	9	Delhi	New Delhi	106 Sky Tower	109	1098765432	919	999999	prostheticco@upi
GlassCo	10	Delhi	New Delhi	107 Sunshine Plaza	110	0987654321	122	101010	glassco@upi

Users

UserID	name	Age	PhoneNumber1	EmailAddress1	EmailAddress2	State	City	Street	ApartmentNo	Pincode	Landmark
1	Rajesh Kumar	25	9876543210	rajesh@gmail.com	rajesh@yahoo.com	Delhi	New Delhi	123 Main Street	101	110001	Near Post Office
2	Priya Sharma	24	8765432109	priya@gmail.com	priya@hotmail.com	Delhi	New Delhi	456 Park Avenue	102	110002	Opposite Park
3	Vikram Singh	26	7654321098	vikram@gmail.com	vikram@outlook.com	Delhi	New Delhi	789 Market Road	103	110003	Next to Mall
4	Anjali Gupta	23	6543210987	anjali@gmail.com	anjali@gmail.com	Delhi	New Delhi	101 Hill Street	104	110004	Near Temple
5	Ravi Verma	27	5432109876	ravi@gmail.com	ravi@gmail.com	Delhi	New Delhi	102 Lake View	105	110005	Beside Lake
6	Pooja Patel	22	4321098765	pooja@gmail.com	pooja@gmail.com	Delhi	New Delhi	103 Garden Lane	106	110006	Behind Garden
7	Amit Shah	28	3210987654	amit@gmail.com	amit@gmail.com	Delhi	New Delhi	104 River Side	107	110007	Near Bridge
8	Neha Jain	21	2109876543	neha@gmail.com	neha@gmail.com	Delhi	New Delhi	105 Forest Road	108	110008	Inside Forest
9	Suresh Mehta	29	1098765432	suresh@gmail.com	suresh@gmail.com	Delhi	New Delhi	106 Sky Tower	109	110009	On Top Floor
10	Reena Roy	20	987654321	reena@gmail.com	reena@gmail.com	Delhi	New Delhi	107 Sunshine Plaza	110	110010	In Front of Plaza
11	Rajesh Kumar	25	9876543210	rajesh@gmail.com	rajesh@yahoo.com	Delhi	New Delhi	123 Main Street	101	110001	Near Post Office
12	Priya Sharma	24	8765432109	priya@gmail.com	priya@hotmail.com	Delhi	New Delhi	456 Park Avenue	102	110002	Opposite Park
13	Vikram Singh	26	7654321098	vikram@gmail.com	vikram@outlook.com	Delhi	New Delhi	789 Market Road	103	110003	Next to Mall
14	Anjali Gupta	23	6543210987	anjali@gmail.com	anjali@gmail.com	Delhi	New Delhi	101 Hill Street	104	110004	Near Temple
15	Ravi Verma	27	5432109876	ravi@gmail.com	ravi@gmail.com	Delhi	New Delhi	102 Lake View	105	110005	Beside Lake
16	Pooja Patel	22	4321098765	pooja@gmail.com	pooja@gmail.com	Delhi	New Delhi	103 Garden Lane	106	110006	Behind Garden
17	Amit Shah	28	3210987654	amit@gmail.com	amit@gmail.com	Delhi	New Delhi	104 River Side	107	110007	Near Bridge
18	Neha Jain	21	2109876543	neha@gmail.com	neha@gmail.com	Delhi	New Delhi	105 Forest Road	108	110008	Inside Forest
19	Suresh Mehta	29	1098765432	suresh@gmail.com	suresh@gmail.com	Delhi	New Delhi	106 Sky Tower	109	110009	On Top Floor
20	Reena Roy	20	987654321	reena@gmail.com	reena@gmail.com	Delhi	New Delhi	107 Sunshine Plaza	110	110010	In Front of Plaza

Userproductsearch

UserID	ProductID	SearchDateTime
1	1	2024-02-12 08:30:00
3	1	2024-02-12 10:15:00
1	2	2024-02-12 08:35:00
4	2	2024-02-12 11:45:00
2	3	2024-02-12 09:00:00
4	3	2024-02-12 11:50:00
3	4	2024-02-12 10:20:00
NULL	NULL	NULL

Checksavailibility

ProductID	SupplierID	StockQuantity
1	1	100
1	2	200
2	1	50
2	2	75
3	1	150
3	2	100
NULL	NULL	NULL

Integrity constraints

E-R diagram link here

1. Users:

  - UserID is the primary key and cannot be null.

  - PhoneNumber1 must be a non-null BIGINT.

  - EmailAddress1 and EmailAddress2 must be non-null VARCHAR(255).

2. PremiumMember:

  - MembershipID is the primary key and cannot be null.

  - UserID is a foreign key referencing Users.UserID.

3. Admin:

  - AdminID is the primary key and cannot be null.

  - Password must be non-null.

4. NGO:

  - CompanyID is the primary key and cannot be null.

  - Email must be non-null.

5. Cart:

  - cart_id is the primary key and cannot be null.

6. OrderTable:

  - OrderID is the primary key and cannot be null.

  - Cart_id is a foreign key referencing Cart(cart_id).

  - DeliveryworkerID is a foreign key referencing DeliveryWorker(ID).

  - SupplierID is a foreign key referencing Supplier(SupplierID).

- UserID is a foreign key referencing Users(UserID).

7. LoginCredentials:

- Username is the primary key and cannot be null.

- UserID is a foreign key referencing Users(UserID).

- Password must be non-null.

8. DeliveryWorker:

- ID is the primary key and cannot be null.

9. ProductReview:

- UserID is a foreign key referencing Users(UserID).

10. Product:

- Product_ID is the primary key and cannot be null.

- SupplierID is a foreign key referencing Supplier(SupplierID).

11. Supplier

- SupplierID is the primary key and cannot be null.

Cardinality Constraints

1. Users:

- One user can have multiple email addresses (EmailAddress1, EmailAddress2).

- One user can have only one phone number (PhoneNumber1).

- One user can belong to only one state, city, street, apartment, and landmark.

2. PremiumMember:

 - Each premium membership belongs to one user (UserID).

 - Each user can have multiple premium memberships.

3. Admin:

 - Each admin has a unique admin ID.

 - There can be multiple admins.

4. NGOs:

 - Each NGO has a unique company ID.

 - There can be multiple NGOs.

5. Cart:

 - Each cart has a unique cart ID.

 - Multiple products can belong to one cart.

6. OrderTable:

 - Each order has a unique order ID.

 - Each order is associated with one cart.

 - Each order is associated with one delivery worker (DeliveryworkerID).

 - Each order is associated with one supplier (SupplierID).

 - Each order is associated with one user (UserID).

7. LoginCredentials:

  - Each user can have only one username.

  - Each username is associated with one user (UserID).

8. DeliveryWorker:

  - Each delivery worker has a unique ID.

  - There can be multiple delivery workers.

9. ProductReview

  - Each product review is associated with one user (UserID).

  - Each user can write multiple product reviews.

10. Product:

  - Each product has a unique product ID.

  - Each product is associated with one supplier (SupplierID).

  - Each product belongs to one category.

  - Each product can have multiple reviews.

11. Supplier:

  - Each supplier has a unique supplier ID.

  - There can be multiple suppliers.

Contributions

Palak Bhardwaj - Data generation and population using SQL queries, Cardinality constraints

Swarnima Prasad - Creation of database, tables using SQL queries, Schemas, Integrity constraints