DBMS - LAB7

Name: Anuvind MP

Roll no.: AM.EN.U4AIE22010

CODE

```
-- CREATE TABLE Sectors(
-- sector id int primary key,
-- sector name varchar(50)
-- );
-- CREATE TABLE packages(
-- pack id int primary key,
-- speed varchar(50),
-- start date date,
-- monthly payment decimal(10, 2),
-- sector id int,
-- foreign key (sector id) references sectors(sector id)
-- );
-- CREATE TABLE Customers (
    Customer id INT PRIMARY KEY,
    first Name VARCHAR(50),
    last Name VARCHAR(50),
    Birth_Date DATE,
    Join Date DATE,
    City VARCHAR(50),
    State VARCHAR(50),
    Street VARCHAR(100),
    main_phone_num VARCHAR(15),
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```
secondary phone num VARCHAR(15),
    fax VARCHAR(15),
    monthly discount DECIMAL(10, 2),
    pack id INT,
    FOREIGN KEY (pack id) REFERENCES packages(pack id)
-- );
-- INSERT INTO Sectors (Sector Id, Sector Name)
-- VALUES
-- (1, 'Private'),
-- (2, 'Business'),
-- (3, 'Residential');
-- INSERT INTO Packages (pack id, Speed, Start Date, Monthly Payment,
Sector Id)
-- VALUES
-- (22, '100 Mbps', '2022-01-01', 50.00, 1),
-- (27, '200 Mbps', '2021-06-15', 75.00, 2),
-- (23, '50 Mbps', '2023-02-01', 30.00, 3),
-- (24, '45 Mbps', '2022-04-11', 50.00, 2),
-- (28, '20 Mbps', '2021-12-18', 75.00, 1);
-- INSERT INTO Customers (Customer Id, first Name, last Name, Birth Date,
Join Date, City, State, Street, main phone num, secondary phone num, fax,
monthly_discount, pack_ id)
-- VALUES
-- (1, 'John', 'Doe', '1990-05-15', '2022-01-10', 'New York', 'NY', '123 Main St',
'555-111-1234', '111-555-5678', '515-8165', 10.00, 22),
-- (2, 'Jane', 'Smith', '1985-09-23', '2021-08-15', 'Los Angeles', 'CA', '456 Elm St',
'111-313-2345', '222-555-6789', '554-1876', 15.00, 27),
-- (3, 'Alice', 'Johnson', '1992-07-10', '2023-03-05', 'Chicago', 'IL', '789 Oak St',
```

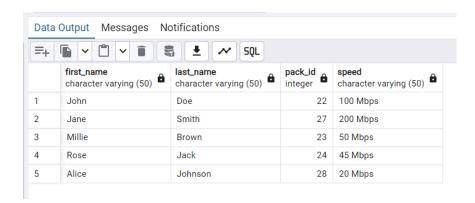
'777-555-3456', '333-555-7890', '575-5431', 5.00, 28),

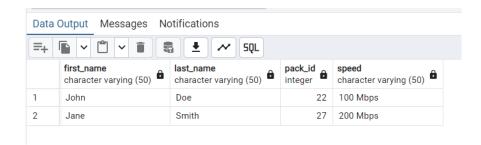
- -- (4, 'Rose', 'Jack', '1995-10-23', '2016-06-08', 'Berlin', 'GE', '321 Sqr St', '222-111-2345', '444-555-6789', '455-9076', 15.00, 24),
- -- (5, 'Millie', 'Brown', '1982-12-10', '2023-04-21', 'Finland', 'FI', '987 Joint St', '333-878-3456', '555-555-7890', '500-5232', 5.00, 23);
- -- select c.first_name, c.last_name, c.pack_id, p.speed from Customers c
- -- inner join packages p on c.pack_id = p.pack_id;
- -- select c.first name, c.last name, c.pack id, p.speed from Customers c
- -- inner join packages p on c.pack id = p.pack id where
- -- c.pack_id in (22, 27) order by c.last_name;
- -- select p.pack id, p.speed, p.monthly payment, s.sector name from packages p
- -- inner join sectors s on p.sector_id = s.sector_id;
- -- select c.first_name , c.last_name, c.pack_id, p.speed, p.monthly_payment, s.sector name from Customers c
- -- inner join packages p on c.pack_id = p.pack_id inner join sectors s on p.sector_id = s.sector_id;
- -- select c.first_name, c.last_name, c.pack_id, p.speed, p.monthly_payment, s.sector_name from Customers c
- -- inner join packages p on c.pack_id = p.pack_id
- -- inner join sectors s on p.sector_id = s.sector_id where s.sector_name = 'Business';
- -- select c.first_name, c.last_name, c.join_date, c.pack_id, p.speed, s.sector_name from Customers c
- -- inner join packages p on c.pack id = p.pack id
- -- inner join sectors s on p.sector id = s.sector id where s.sector name = 'Private';

- -- select c.first name, c.last name, p.speed, p.monthly payment from Customers c
- -- inner join packages p on c.pack id = p.pack id;
- -- select c.first name, c.last name, p.speed, p.monthly payment from Customers c
- -- left outer join packages p on c.pack id = p.pack id;
- -- select c.first name, c.last name, p.speed, p.pack id from Customers c
- -- right outer join packages p on c.pack id = p.pack id;
- -- select c.first name, c.last name, p.speed, p.pack id from Customers c
- -- full join packages p on c.pack id = p.pack id;
- -- INSERT INTO Packages (pack_id, Speed, Start_Date, Monthly_Payment, Sector Id)
- -- VALUES
- -- (10, '111 Mbps', '2022-01-01', 50.00, 1),
- -- (17, '20 Mbps', '2021-04-15', 75.00, 2);
- -- INSERT INTO Customers (Customer_Id, first_Name, last_Name, Birth_Date, Join_Date, City, State, Street, main_phone_num, secondary_phone_num, fax, monthly discount, pack id)
- -- VALUES
- -- (101, 'Amado', 'Taylor', '1990-04-15', '2022-01-10', 'New York', 'NY', '113 Main St', '551-111-1234', '111-505-5678', '445-8165', 10.00, 10),
- -- (103, 'Bright', 'Win', '1985-09-27', '2021-08-21', 'Los Angeles', 'CA', '455 Elm St', '101-313-2345', '222-155-6789', '524-1876', 15.00, 17);
- -- select c1.last name, c1.first name, c1.pack id from Customers c1
- -- join customers c2 on c1.pack id = c2.pack id where c2.first name = 'Amado'
- -- and c2.last name = 'Taylor';

- -- SELECt c1.last name, c1.first name, c1.monthly discount FROM Customers c1
- -- JOIN Customers c2 ON c1.monthly discount < c2.monthly discount
- -- WHERE c2.customer id = 103;
- -- INSERT INTO Packages (pack_id, Speed, Start_Date, Monthly_Payment, Sector_Id)
- -- VALUES
- -- (11, '111 Mbps', '2022-01-01', 50.00, 2);
- -- SELECT p1.pack id, p1.speed FROM packages p1
- -- JOIN packages p2 ON p1.speed = p2.speed WHERE p2.pack id = 10;

OUTPUTS





Data Output Messages Notifications SQL monthly_payment pack_id sector_name speed character varying (50) character varying (50) integer numeric (10,2) 100 Mbps 1 22 50.00 Private 2 27 200 Mbps 75.00 Business 3 50 Mbps 30.00 Residential 23 4 45 Mbps 50.00 Business 24 5 28 20 Mbps 75.00 Private

