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POSTGRESQL ASSIGNMENT

DPhone corporation is telecommunications industry wants to develop software for there new upcoming phone. They came to your company. You as team member have responsibility to develop this standalone application. They having following requirements.

1.User can register and login

2. User can give referral for phone from their family or friends.

3. If user referral buy mobile the user will get 1000 bonus points. 1point is equal to 1Rs.

4. User can view referral, edit referral, delete referral.

In this you as team member have to design database.

Create following tables

User(userId,first name,last name, address, mobile, email, username, password)

Referral( referalId, referral First name, referral last name, mobile, email, userId(fk), date of referral, referral points, status)

Customer(custermerId, first name, last name, email, mobile)

BuyingDetails( custermerId(fk),userId,purchase date, productName)

Insert 5 records in each table and write Sqlqueries for following operations.

CREATE TABLE users (userId INT PRIMARY KEY, fname TEXT NOT NULL, lname TEXT

, m\_no TEXT [], email TEXT, user\_name TEXT UNIQUE,password TEXT NOT NULL);

CREATE TABLE referral(ref\_id INT PRIMARY KEY, ref\_fname TEXT NOT NULL, ref\_lname TEXT, m\_no TEXT [],email TEXT, userid INT, dt\_of\_rfl DATE NOT NULL, rfl\_pts INT, status TEXT, CONSTRAINT fk\_userid FOREIGN KEY(userid) REFERENCES users(userid));

CREATE TABLE customer(cust\_id INT PRIMARY KEY, cfname TEXT NOT NULL, clname TEXT NOT NULL, email TEXT, mobile TEXT [] );

CREATE TABLE buy\_dtls(cust\_id INT PRIMARY KEY, userid INT, purchase\_date DATE NOT NULL, pdt\_name TEXT NOT NULL, FOREIGN KEY(cust\_id) REFERENCES customer(cust\_id), FOREIGN KEY(userid) REFERENCES users(userid));

INSERING THE VALUES::

INSERT into users(userid, fname, lname, m\_no, email, user\_name, password) values (101, 'Utkarsh', 'Tiwari',ARRAY['9109192102'],'uttiwari@gmail','\_utkarsh.t','Utk@rsh'), (102,'Yashvi','Tiwari', ARRAY['8939149591'],'yttiwari@yahoo','ytiw\_ari','Yashv!'),(103,'Anisha','Sharma',ARRAY['8977676771'],'anishinf@gmail','anisharma','@anishrma'),(104,'Devesh','Gupta',ARRAY['8889855155'],'dev@gmail','Dev\_sh','gupt@45'),(105,'Kshitij','Kumar',ARRAY['7999915789'],'kkumar@gmail','k\_kumar18','Kum@r57');

INSERT INTO referral values(2301,'Abhishom','Bhatacharya',ARRAY['3457788'],'abhi@gmail',101,'2023-01-03','1000','Excepted');

INSERT 0 1

ut=# DELETE from referral;

DELETE 1

ut=# INSERT INTO referral values(2301,'Abhishom','Bhatacharya',ARRAY['3457788'],'abhi@gmail',101,'2023-01-03',1000,'Excepted');

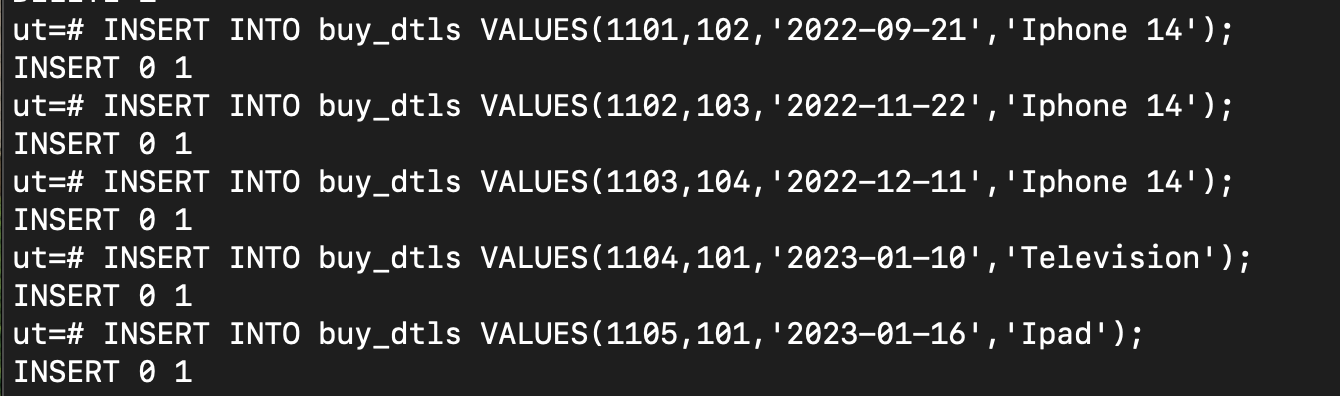
INSERT INTO referral values(2302,'Sudarshan','Banerjee',ARRAY['915099'],'sudha@gmail',101,'2023-01-04',0,'Pending');

INSERT INTO referral values(2303,'Rajeeta','Sarkar',ARRAY['787333'],'vipul@gmail',102,'2022-09-21',1000,'Excepted');

INSERT INTO referral values(2304,'Vipul','Choubey',ARRAY['789901'],'suk@gmail',103,'2022-11-22',0,'Pending');

Text

Description automatically generated

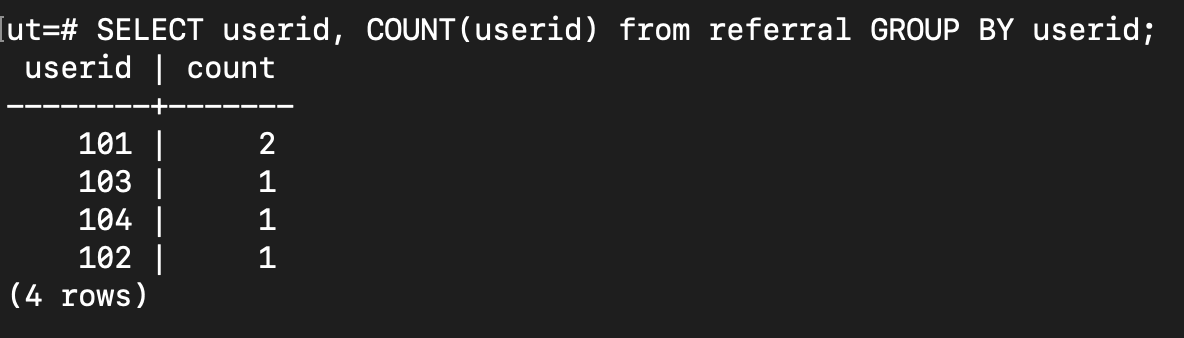


A picture containing table

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1. Display total number of referral done by particular user by userId.

SELECT userid, COUNT(userid) from referral GROUP BY userid;



1. Display total number of points earned by user.

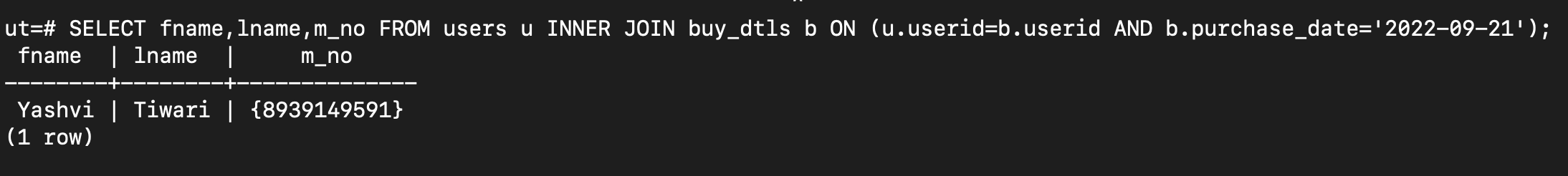
SELECT userid, COUNT(userid),SUM(rfl\_pts) from referral GROUP BY userid;

Text

Description automatically generated

1. Display name and mobile of user whose referral customer have purchased item on 21/09/2022

SELECT fname,lname,m\_no FROM users u INNER JOIN buy\_dtls b ON (u.userid=b.userid AND b.purchase\_date='2022-09-21');



4.Display details of customer who purchased “iPhone 14”

SELECT c.\* FROM customer c INNER JOIN buy\_dtls b ON (c.cust\_id=b.cust\_id AND b.pdt\_name='Iphone 14');

OR

SELECT c.cust\_id, c.cfname, c.clname, c.email, c.mobile FROM customer c INNER JOIN buy\_dtls b ON (c.c

ust\_id=b.cust\_id AND b.pdt\_name='Iphone 14');

Text

Description automatically generated

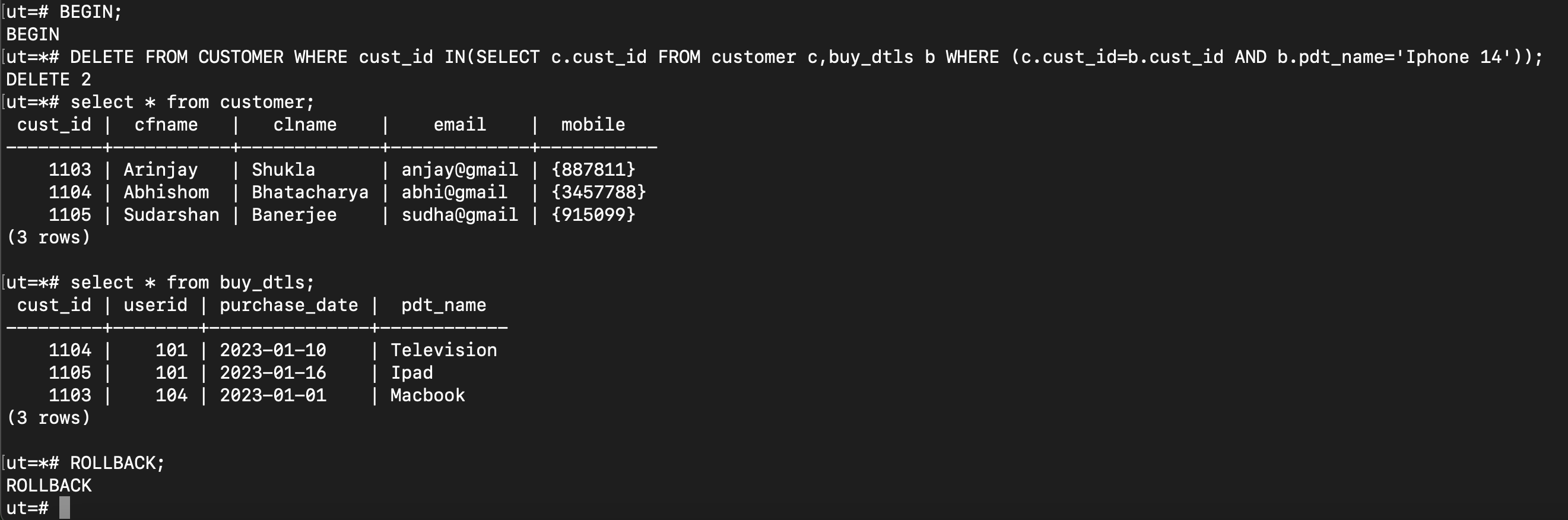
5.delete all record of customer including purchase details Those have purchased iPhone 14.

BEFORE writing the below query we have to alter the foreign key that connects buy\_dtls table and the customer table(we need to add ON CASCADE)

ALTER TABLE buy\_dtls DROP CONSTRAINT buy\_dtls\_cust\_id\_fkey;

ALTER TABLE buy\_dtls ADD CONSTRAINT bdt\_cust\_id\_fkey FOREIGN KEY(cust\_id) REFERENCES customer(cust\_id) ON DELETE CASCADE;

DELETE FROM CUSTOMER WHERE cust\_id IN(SELECT c.cust\_id FROM customer c,buy\_dtls b WHERE (c.cust\_id=b.cust\_id AND b.pdt\_name='Iphone 14'));



15. Write userview to display only first name, last name, mobile and email. And

Perform following queries on view

-Display record by email

-Display record by mobile

CREATE VIEW userview AS SELECT fname, lname,m\_no,email FROM users ORDER BY email;

CREATE VIEW userview2 AS SELECT fname, lname,m\_no,email FROM users ORDER BY m\_no;

