Name: Shruti Gupta

Roll: 244CA051

Assignment 5:

CREATE TABLE Bank (

bk\_code VARCHAR(10) PRIMARY KEY,

bk\_name VARCHAR(50) NOT NULL,

bk\_address VARCHAR(100)

);

CREATE TABLE Branch (

br\_id VARCHAR(10) PRIMARY KEY,

br\_name VARCHAR(50) NOT NULL,

br\_address VARCHAR(100),

bk\_code VARCHAR(10),

FOREIGN KEY (bk\_code) REFERENCES Bank(bk\_code)

);

CREATE TABLE Customer (

cust\_ID INT PRIMARY KEY,

cust\_name VARCHAR(50) NOT NULL,

phone\_no VARCHAR(15) UNIQUE,

address VARCHAR(100)

);

CREATE TABLE Account (

acc\_no INT PRIMARY KEY,

acc\_type VARCHAR(20) CHECK (acc\_type IN ('savings', 'current')),

balance DECIMAL(10,2),

br\_id VARCHAR(10),

FOREIGN KEY (br\_id) REFERENCES Branch(br\_id) ON DELETE CASCADE

);

CREATE TABLE Customer\_Account (

cust\_ID INT,

acc\_no INT,

PRIMARY KEY (cust\_ID, acc\_no),

FOREIGN KEY (cust\_ID) REFERENCES Customer(cust\_ID) ON DELETE CASCADE,

FOREIGN KEY (acc\_no) REFERENCES Account(acc\_no) ON DELETE CASCADE

);

CREATE TABLE Loan (

loan\_ID INT PRIMARY KEY,

loan\_type VARCHAR(50),

amount DECIMAL(10,2),

br\_id VARCHAR(10),

FOREIGN KEY (br\_id) REFERENCES Branch(br\_id) ON DELETE CASCADE

);

CREATE TABLE Customer\_Loan (

cust\_ID INT,

loan\_ID INT,

PRIMARY KEY (cust\_ID, loan\_ID),

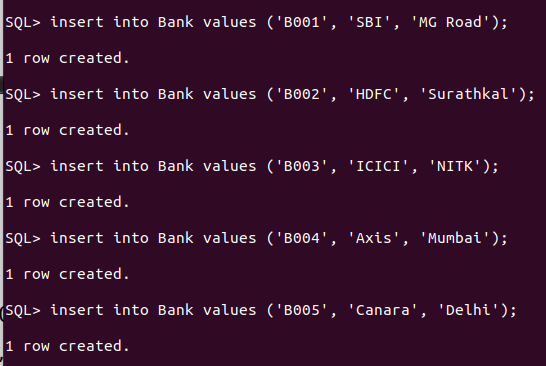
FOREIGN KEY (cust\_ID) REFERENCES Customer(cust\_ID) ON DELETE CASCADE,

FOREIGN KEY (loan\_ID) REFERENCES Loan(loan\_ID) ON DELETE CASCADE

);

2. Insert at least five records in each table

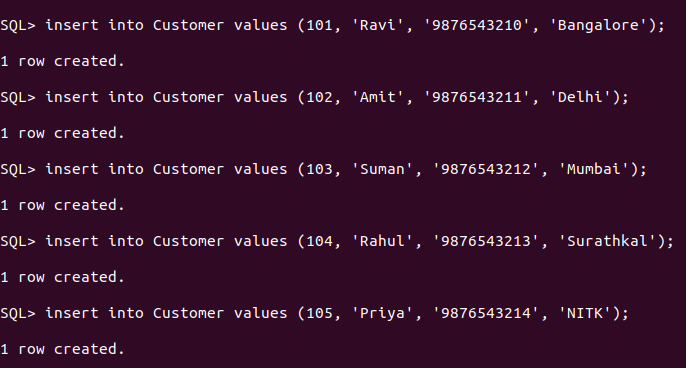
INSERT INTO Bank VALUES



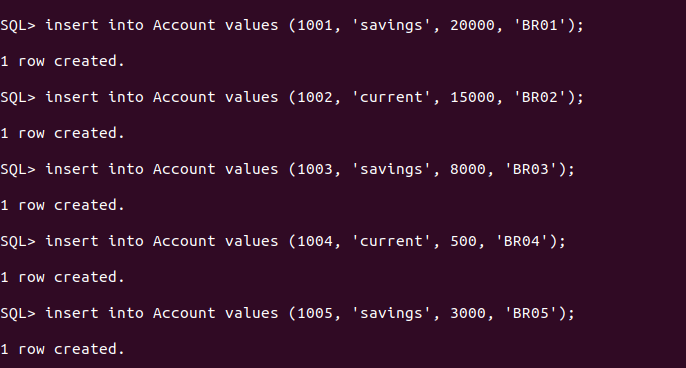
INSERT INTO Branch VALUES



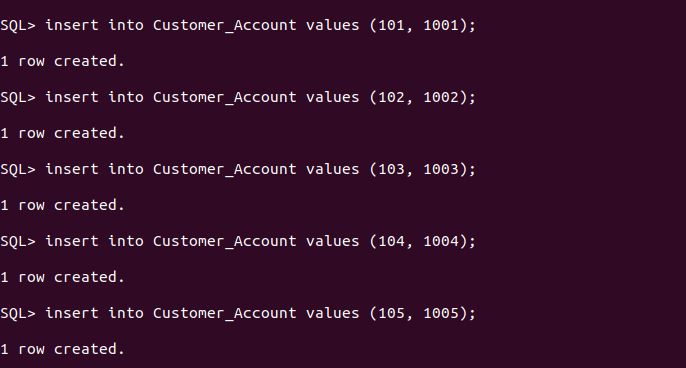
INSERT INTO Customer



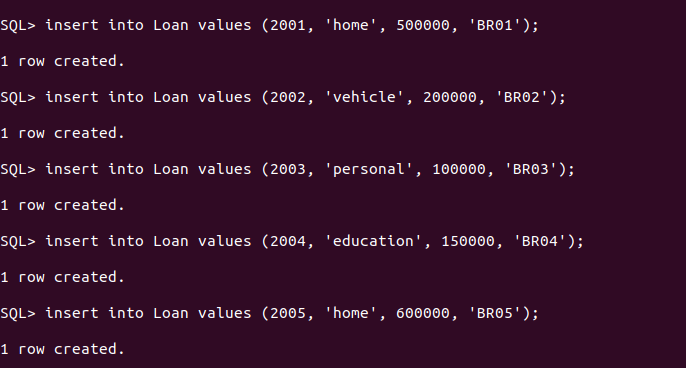
INSERT INTO Account VALUES



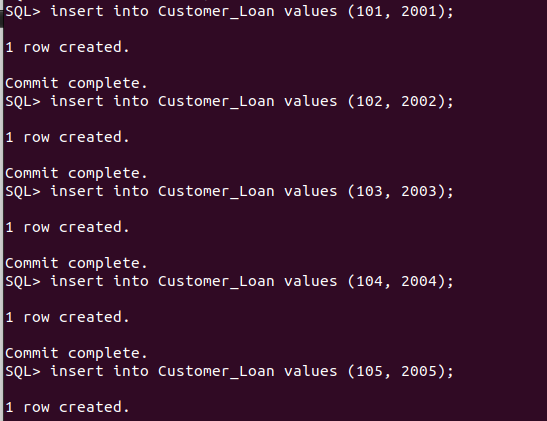
INSERT INTO Customer\_Account VALUES

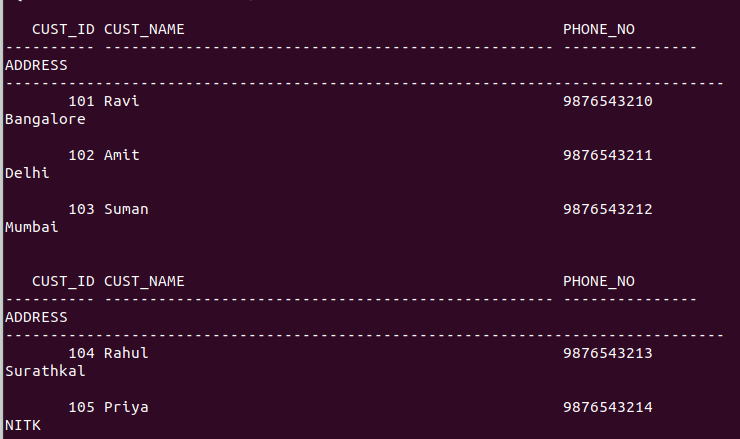


INSERT INTO Loan VALUES

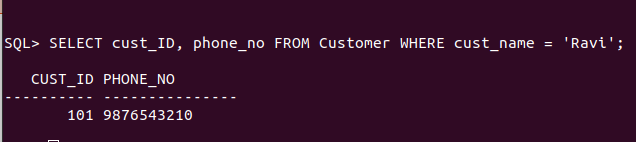


INSERT INTO Customer\_Loan VALUES

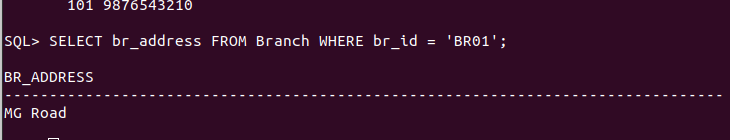


3. List the details of all customers.

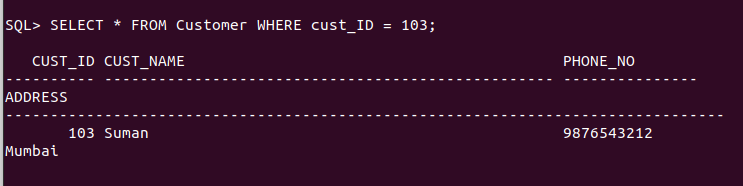
4.Find the cust\_ID and phone number of customer ‘Ravi’



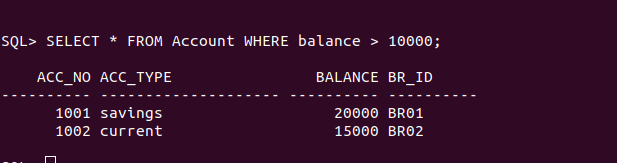
5. Find the Address of all branches of br\_01



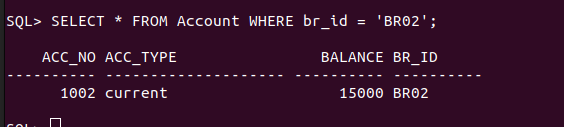
6. Find the details of Customer having ID 103



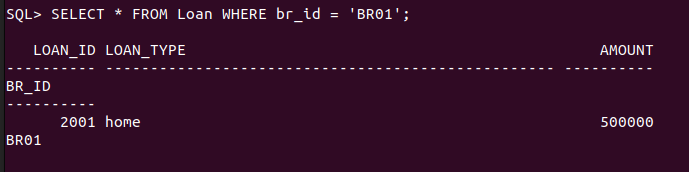
7. List the account details having balance more than 10000



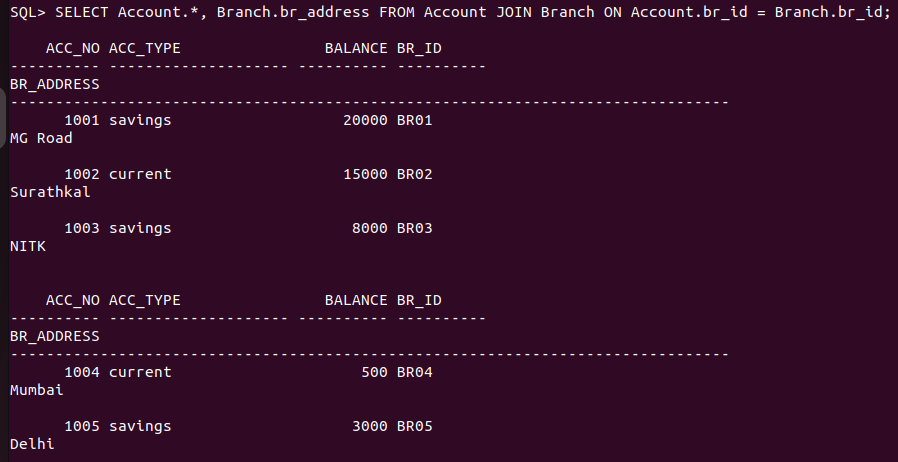
8. List the account details of branch br\_02



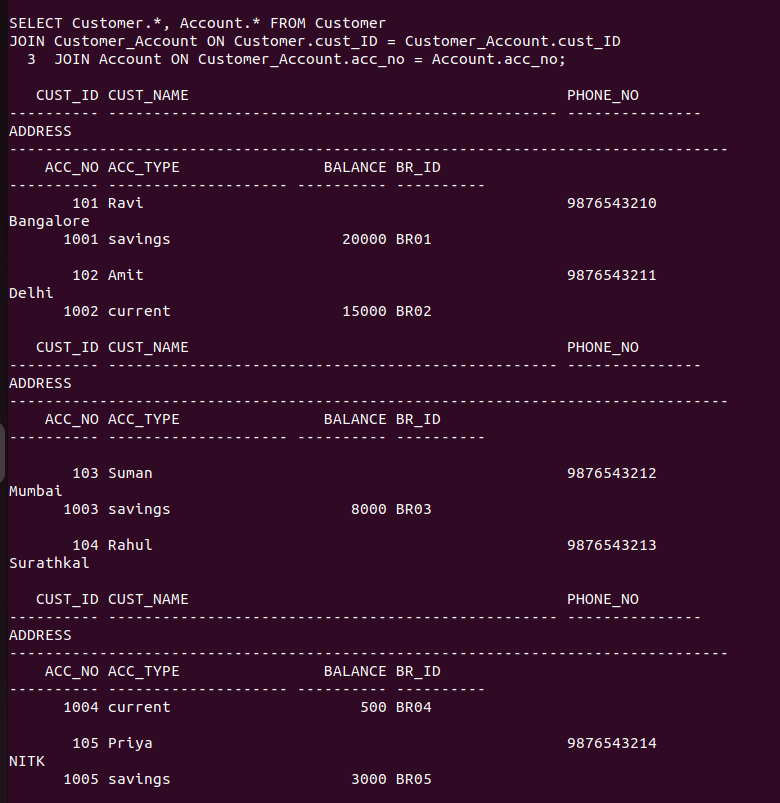
9. List the loan details of branch br\_01



10. List the account details with their branch address



11. List the customer details with their account details

SELECT Customer.\* FROM Customer

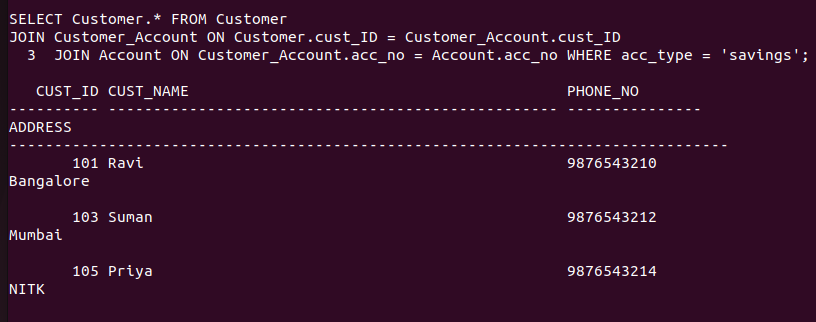
JOIN Customer\_Account ON Customer.cust\_ID = Customer\_Account.cust\_ID

JOIN Account ON Customer\_Account.acc\_no = Account.acc\_no

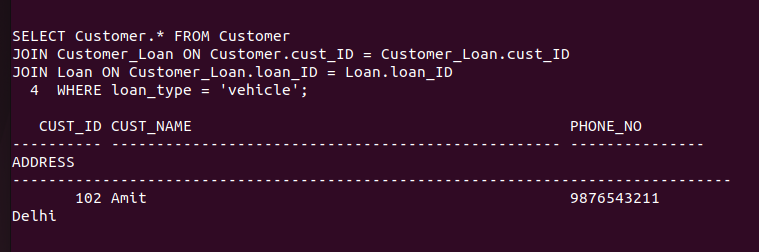
JOIN Branch ON Account.br\_id = Branch.br\_id

WHERE br\_name = 'Surathkal';

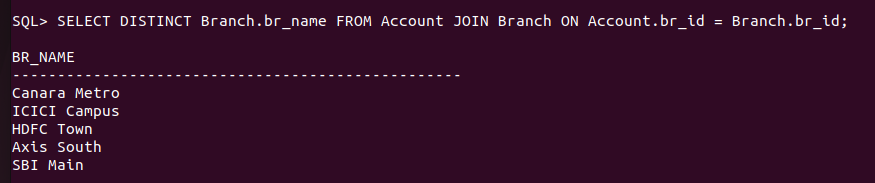
12. List the customer details having account type ‘savings’



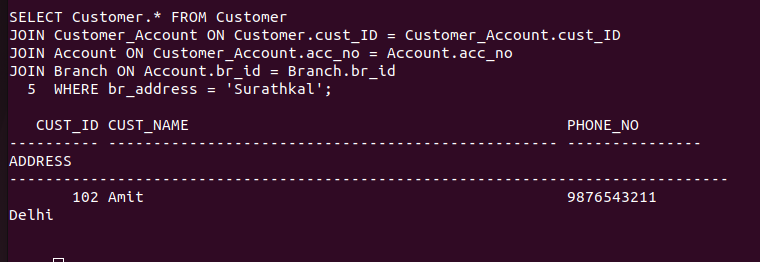
13. List the customer details having vehicle loan



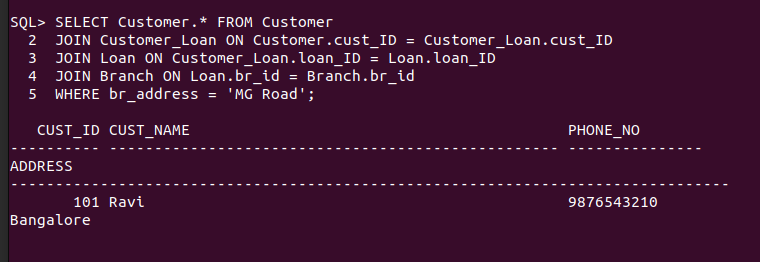
14. List the branch names of all accounts



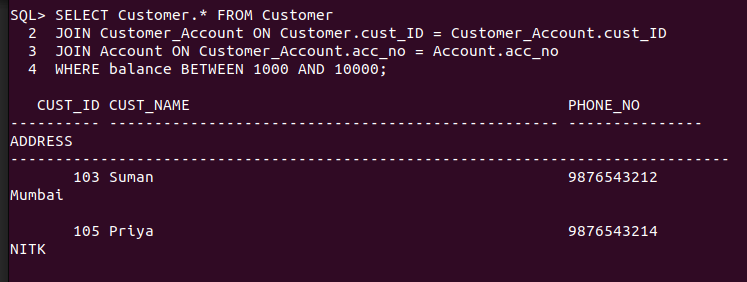
15. List the customer details going to ‘Surathkal’ branch



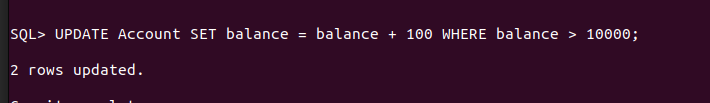
16. List the customers having loan account in ‘MG Road’ branch



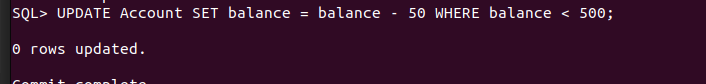
17. Find the customers having balance between 1000 to 10000



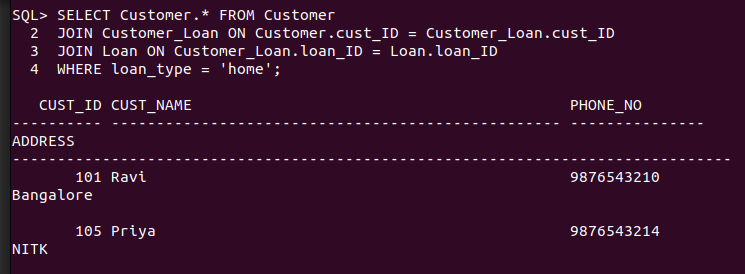
18. Give a bonus of rupees 100 to customers having more than 10000 balance



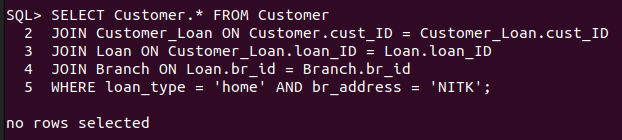
19. Deduct 50 rupees from customers having less than 500 balance



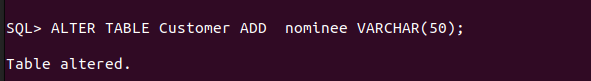
20. Give the customer details having home loan



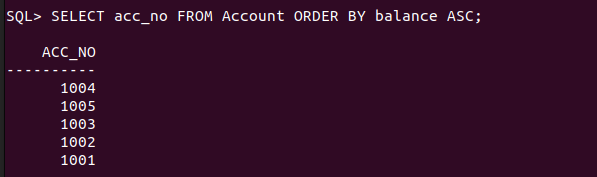
21. Give the customer details having home loan in ‘NITK’ branch



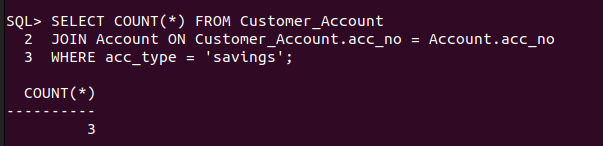
22. Add a column NOMINEE to the customer table



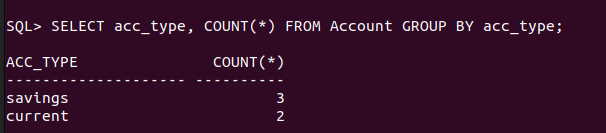
23. List all the account numbers in ascending order of their balance



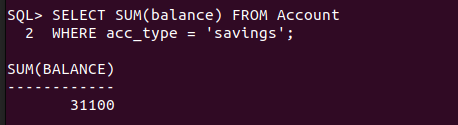
24. Count the number of customers having account type savings



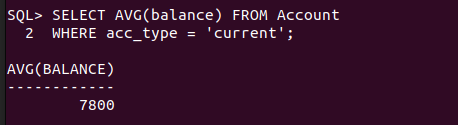
25. Count the number of customers for each account type



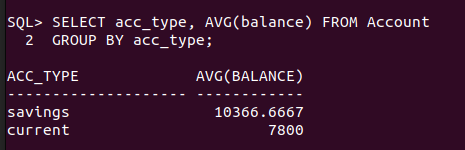
26. Find the total balance in Savings account



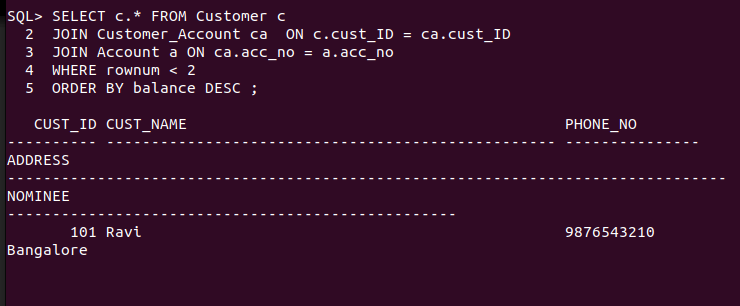
27. Find the average balance of Current account



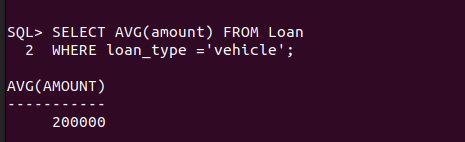
28. Find the average balance for each account type



29. Find the customer details having maximum balance



30. Find the average amount for vehicle loan



31. Find the average balance in each branch

