Final Submission Practical 2

Name. SHIVANSH LOHANI PRN.24072521141

For Branches:

```
Address VARCHAR(255)

Address VARCHAR(255)

Address VARCHAR(255)

Address VARCHAR(256)

Address VARCHAR(256)
```

For Employe:



For Customers:

```
CustomerID INT PRIMARY KEY,
        Name VARCHAR(100),
        ContactDetails VARCHAR(100),
        Email VARCHAR(100) UNIQUE,
        BranchID INT,
        FOREIGN KEY (BranchID) REFERENCES Branches(BranchID)
tion Output
  Time
           Action
                                                                                               Message
9 21:47:03 INSERT INTO Employees (Employees (Employees D, Name, Position, Email, BranchID) VALUES (101, 'Surajit Hal... 3 row(s) affected Records: 3 Di
0 21:48:25 CREATE TABLE Customers ( CustomerID INT PRIMARY KEY, Name VARCHAR(100), Conta... 0 row(s) affected
For Accounts:
AccountNumber INT PRIMARY KEY,
           AccountType VARCHAR(50),
45
46
          Balance DECIMAL(15, 2),
47
           CustomerID INT,
            FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
48
49
Action Output
     Time
              Action
                                                                                     Message
  11 21:50:44 INSERT INTO Customers (CustomerID, Name, Contact Details, Email, BranchID) VALUES (201, 'Abc ... 2 row(s) affected Records: 2 Duplicates: 0 Warning
 12 21:51:33 CREATE TABLE Accounts ( AccountNumber INT PRIMARY KEY, AccountType VARCHAR(50... 0 row(s) affected
For Transactions:
• ⊖ CREATE TABLE Transactions (
         TransactionID INT PRIMARY KEY,
         AccountNumber INT,
         Amount DECIMAL(15, 2),
         TransactionDate DATE,
         TransactionType VARCHAR(50),
         FOREIGN KEY (AccountNumber) REFERENCES Accounts(AccountNumber),
         CONSTRAINT AccountTransactionKey UNIQUE (AccountNumber, TransactionID)
    );
ction Output
13 21:52:34 INSERT INTO Accounts (AccountNumber, AccountType, Balance, CustomerID) VALUES (301, 'Sav... 3 row(s) affected Records: 3 Duplicates
14 21:53:25 CREATE TABLE Transactions ( TransactionID INT PRIMARY KEY, AccountNumber INT, A... 0 row(s) affected
```

1. Insert Data

For Branches:

```
10 • INSERT INTO Branches (BranchID, Name, Address) VALUES
         (1, 'Sadar', '0017 Ngp MH'),
 12
        (2, 'Koradi', '0018 Ngp MH');
 14 • Select * from Branches;
                                                                                                                                                   > Context Help Snippets
Action Output
                                                                                                                                                                                  Duration / Fetch
6 21:24:23 INSERT INTO Branches (BranchID, Name, Address) VALUES (1, 'Sadar', '0017 Ngp MH'), (2, 'Korad... 2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0
                                                                                                                                                                                 0.000 sec
     7 21:24:47 Select *from Branches LIMIT 0, 1000
                                                                                                                                                                                 0.000 sec / 0.000 sec
                                                                                                 2 row(s) returned
```

For Employes:

```
INSERT INTO Employees (EmployeeID, Name, Position, Email, BranchID) VALUES
(101, 'Surajit Halder', 'Manager', 'surajit@yahoo.com', 1),
(102, 'Shravan Mune', 'Teller', 'shravan@yahoo.com', 1),
(103, 'Yash Pandey', 'Clerk', 'yash@yahoo.com', 2);
```



For Customers:

```
INSERT INTO Customers (CustomerID, Name, ContactDetails, Email, BranchID) VALUES
 (201, 'Abc Roy', '555-1234', 'abc@yahoo.com', 1),
 (202, 'Cde Ray', '555-1235', 'cde@yahoo.com', 2);
1 Output
21:48:25 CREATE TABLE Customers ( CustomerlD INT PRIMARY KEY, Name VARCHAR(100), Conta... 0 row(s) affected
21:50:44 INSERT INTO Customers (CustomerID, Name, ContactDetails, Email, BranchID) VALUES (201, 'Abc ... 2 row(s) affected Records: 2 Duplicates: 0 Warnings:
```

For Accounts:

```
INSERT INTO Accounts (AccountNumber, AccountType, Balance, CustomerID) VALUES
    (301, 'Savings', 5000.00, 201<mark>)</mark>,
    (302, 'Current', 1500.00, 201),
    (303, 'Savings', 7000.00, 202);
tion Output
   Time
           Action
12 21:51:33 CREATE TABLE Accounts ( AccountNumber INT PRIMARY KEY, AccountType VARCHAR(50... 0 row(s) affected
13 21:52:34 INSERT INTO Accounts (Account Number, AccountType, Balance, CustomerlD) VALUES (301, 'Sav... 3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
For Tansactions:
      INSERT INTO Transactions (TransactionID, AccountNumber, Amount, TransactionDate, TransactionType) VALUES
      (401, 301, 200.00, '2025-01-01', 'Deposit'),
      (402, 302, 50.00, '2025-01-02', 'Withdrawal'),
      (403, 303, 1000.00, '2025-01-03', 'Deposit');
Action Output
   Time
              Action
                                                                                               Message
 14 21:53:25 CREATE TABLE Transactions ( TransactionID INT PRIMARY KEY, AccountNumber INT, A... 0 row(s) affected
  15 21:54:28 INSERT INTO Transactions (TransactionID, AccountNumber, Amount, TransactionDate, Transaction... 3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
2. Update Data
  JPDATE Accounts
  SET Balance = Balance + 200
  WHERE AccountNumber = 301;
n Output
21:54:28 INSERT INTO Transactions (TransactionID, AccountNumber, Amount, TransactionDate, Transactio...
                                                                                         3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
22:15:57 UPDATE Accounts SET Balance = Balance + 200 WHERE AccountNumber = 301
                                                                                          1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
75 • JPDATE Customers
        SET ContactDetails = '555-4321'
        WHERE CustomerID = 201;
utput
Action Output
 # Time
              Action
```

1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

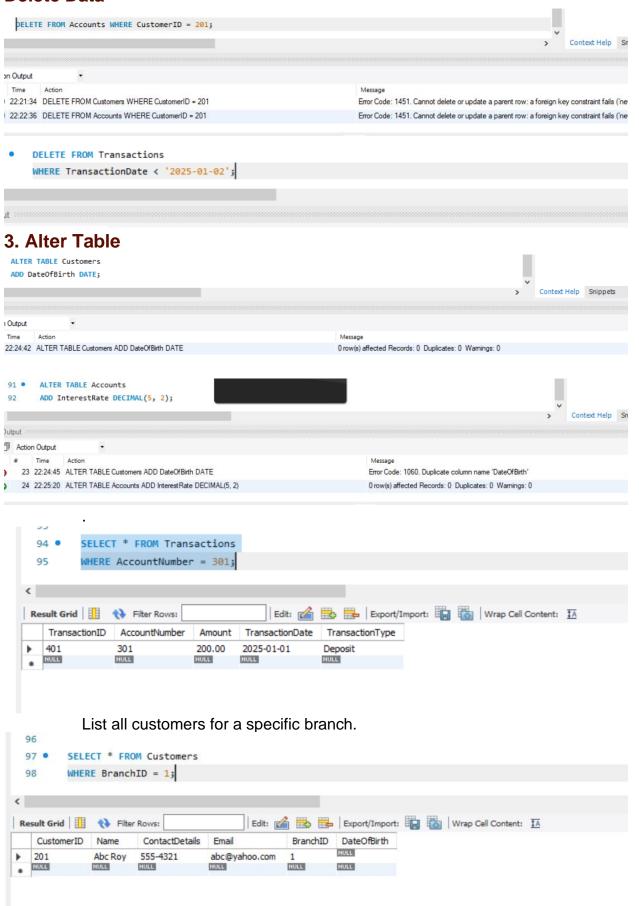
For Employee Possition:

16 22:15:57 UPDATE Accounts SET Balance = Balance + 200 WHERE AccountNumber = 301

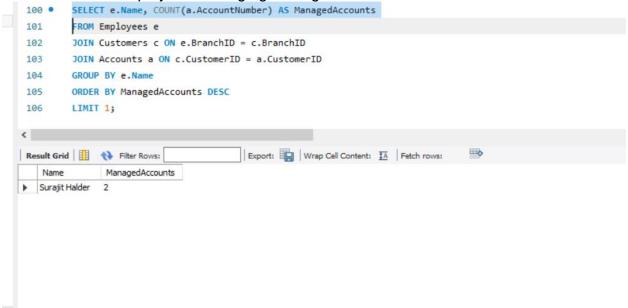
17 22:17:25 UPDATE Customers SET Contact Details = '555-4321' WHERE CustomerID = 201



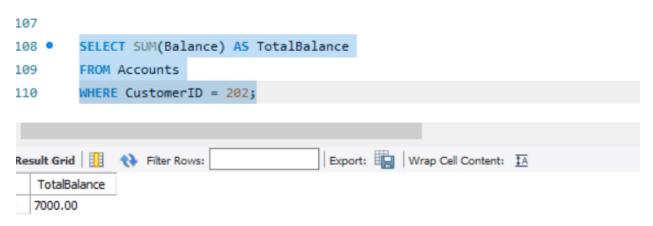
Delete Data

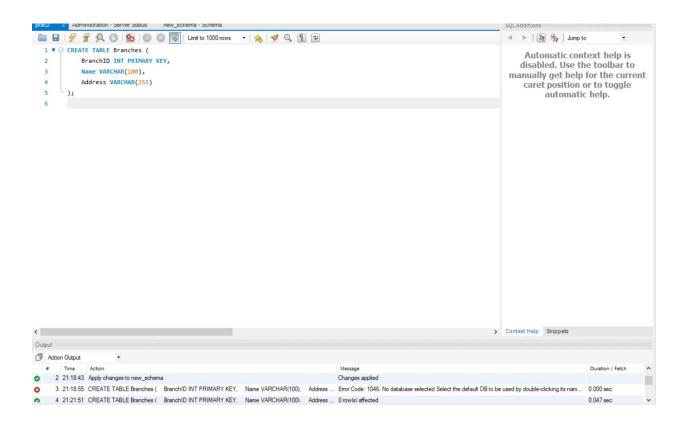


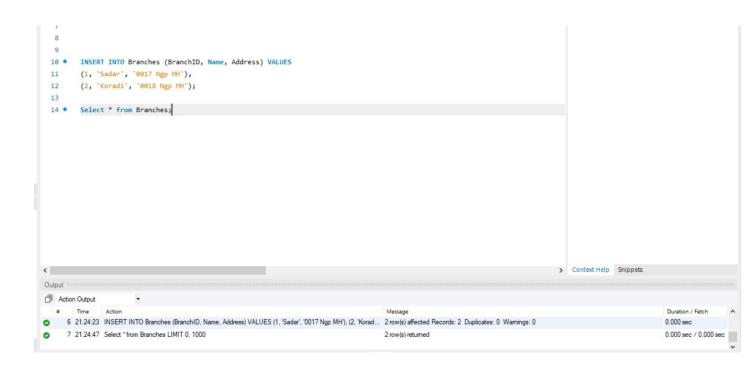
Find employees managing the highest number of accounts.



Calculate the total balance across all accounts for a specific customer.







```
5 ● ○ CREATE TABLE Employees (
           EmployeeID INT PRIMARY KEY,
           Name VARCHAR(100),
           Position VARCHAR(50),
           Email VARCHAR(100) UNIQUE,
           BranchID INT,
           FOREIGN KEY (BranchID) REFERENCES Branches(BranchID)
)
3
      );
Action Output
   Time
            Action
                                                                                               Message
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     (102, 'Shravan Mune', 'Teller', 'shravan@yahoo.com', 1),
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              Balance DECIMAL(15, 2),
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              CustomerID INT,
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