B.

Q. CREATE Customer Table.

CREATE TABLE curtomes (
Centomerito INT Primary EEY AUTO_INCREMENT,
FIRST NAME WAKCHAR (56)

Last Name VEARCHAR (50),

Small WARCHAR (100) UNIQUE,

·Phone. Number VARCMAR (15), Address VARCMAR (200)

a. Greate Accounts Table.

CREATE Table Accounts (

Account-Aunber INT PRIMARY KEY.

CustomerIA INT ,

Accounttype VARCHAR (20),

Balance DECINAL (10, L)

Date Created DATE,

POREIGN KBY [contomerID REFERENCES

coestomers (constomerIA)

2;

Di

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- 1 Incerting Data
 - 1. Insert Data into Customers terble

INSERT INTO Customers (first Name, Last Name, Email, Phone Number, Address)

2301AV

('John', 'Doe', 'John. doe @gmail.com', 1234567890',

123 Main St, 'Cityville'),

(15ane', 15mith', 15ane, 6mith@gmail. com',
1098765+321', 1456 clm St, Townville'));

@ INEERT Data in Account Table.

TRICERT INTO Accounts [Account Number, Centomer IP, Account Type, Balance, Date (realed)

VALUES
[1001 11, 'Saving', 5000.00 | 2023 -01-15'),

(1002, 1, 'checking', 1500.00, '2023 - 02-20'),

(1002, 1, 'checking', 1500.00, '2023 - 02-20'),

(1003, 2, 'Saving', 2000.00, '2023 - 03-01');

(3). UP date Data

SET Balance = 5500.000

WHERE Account Number = 1001;

OPPATE Email Austomer

SET email = jane. smith @new @gmail.com'

WHERE CONSTRUCTO = 2;

DET Balance = Balance * 1.10

WHERE Accountitype 2 'Sawing";

P. BELECT QUERE

FOR SACCOUNTYPE = Saving 1

D.B. SELECT Customers. Customers. Finthe customers. Last Name, Accounts Balance

FROM Customers.

JOIN Accounts ON Costomers. Customer ID =

Account. Coustomer ID

WHERE Accounts Accounttype = 'saving';

9. SELE CUE FROM

WHE

(10).

.

5

11)

12.

13.

SELECT customers. Customers. The Name, customers. Last Name, Accounts Balance

from Coutomers.

DOIN ACCOUNTS ON CUSTOMERS. CENTOMERS :
ACCOUNTS. CUSTOMERIZA:

WHERE Account Balance 7 8000 AND Account Account Type = 'Checking';

SELECT + FROM ACCOUNTS.

WHERE Balance < 2000;

3.

6), DELETING DATA.

- DELETE FROM Accounts

 WHERE AccountMumber = 1002;
- 12. DEFETE FROM Customer MERE phonenumber LIKE 11287.
- 1. DELETE FRONT : Accounts
 WHERE Pale Created (12023-02-01'

First Na

19. AL AD

ALT

140

SELECT Accounttype, SUM (bolance) AS Totals FRON CONTONION | Account WHERE Account Type = 'Saving' Group By Account Type,

(20),

SELECT CURTONES. FIRST Name, Cartoners. LastNall, (16) Account. AccountNumber, Accounts Balance fROM Costoners LEFT FOIL Accounts ON Contoners. Contoners a Arecount customer III)

(D).

2). Constrainte and Walidation

ALTER TABLE ACCOUNTS ADP CONSTRAINT Check-balance CHECK (Balane 7:0)

- MODIFY COLUMN Smail VARCHAR (100) NOT NOLL
 UNIQUE;
 - 19. ALTER TABLE ACCOUNTS

 ADD CONSTRAINT fk-customer FOREIGN KEY (Customers)

 REFERENCES Customers (Customers);
- ADD CONSTRAINT Check-account-type CHECK (Accounttype IN ('saving', 'Checking'));

@ Complex Queries

42

lano

D.

SELECT Customers. First Name, Customers. Last Name,
Account. Account Number, MAX (Accounts. Balance)

As Highest Balance

FROM Customers

JOIN Account ON Customers. (wotomers) =

Accounts. Customers. Customers.)

GROUP BY Customers. Customers.

ORDER BY Highest Balance DESC

LINIT 1;

BEGIN TRANSACTION;

WHERE Account Number = 1000;

SET Balance = Balance + 1000

LAMERE Account Number = 1001;

SELECT Customers first Name, Customers Lost SUNT CACCOUNTS Balance) As Total Balance from Customers FOIN Accounts ON Contoner Customer IP = Accounts customer IN Accounts Customer IN

SELECT AV9 (Balance) As Average Balance

FROM Accounte;

SELECT COUNT(*) AS Total Saving Accounts

FROM Accounts

WHERE AccountType = 'Saving';

BEGIN TRANSACTION

UPPATS ACCOUNT

SET Balance = Balance - 500

WHERE Account Number = 1002;

UPPATE Account Number = 1002;

WHERE Balance = Balance + 500

WHERE Account Number = 1005;

COMMIT;