AIM:. For a given set of relation tables perform the following:

- i. Creating views (with and without check option),
- ii. Dropping views, Selecting from a view

INPUT:-

Step-1: (reate Banklustomers, Accounts and Transactions tuble 11 Banklustomers Table CREATE TABLE Banklustomers (CUSTOMER TO INT AUTO_INCREMENT PRIMARY KEY. FirstName VARCHAR(50), LOSTName VAR(HAR (50) Dorte of Birth DATE. Fmail VARCHAR (100) 25 11 Accounts Table CREATE TABLE Accounts (ACCOUNTID INT AUTO_ INCREMENT PRIMARY KEY. (ustomerID INT. Account Type VARCHAR (20), Balance DECIMAL (10,2), FORETOIN KEY ((USTOMESTO) REFERENCES Banklustomess (lustomerID) 11 Toursaction Tuble CREATE TABLE Transaction (Toursaction ID INT AUTO INCREMENT PRIMARY KEY Account ID INT. Toursaction Date DATE. Amount DECIMAL (10,2), TransactionType VARCHAR(10), FORETON KEY (Account ID) REFERENCES ACCOUNTS (Account ID)

```
Step-2: Insert data into Banklustomers, Accounts and Toursaction table.

11 Banklustomers Table
```

```
// Banklustomers Table
TNGERT INTO Banklustomers (FirstName, LastName, DateOfBirth,

Finail)

VALUES

('John', 'Doe', '1980-05-15', 'john.doe@gmail.(am'),

('Jane', 'Smith', '1990-07-22', 'jone.smith@gmail.com'),

('Alan', 'Brown', '1985-09-30', 'alan. brown @gmail.com');

// Accounts Table
INSERT INTO Accounts ((ustomerTo, AccountType, Balance)

VALUES

(1, 'Savings', 5000.00),

(1, 'Checking', 1500.00),

(2, 'Checking', 1500.00),

(3, 'Savings', 4000.00);

// Transactions Table
INSERT INTO Transactions (AccountIo, TransactionDate, Amount,

VALUES

(1, '2024-08-01', 1000.00, 'Deposit'),

(2, '2024-08-02', 500.00, 'Withdrawal');

(3, '2024-08-03', 200.00, 'Withdrawal');
```

Step-3: Fetch the data

```
// Banklustomers Table

SELECT * FROM Banklustomers;

// Accounts Table

SELECT * FROM Accounts;

// Toansactions Table

SELECT * FROM Transactions;
```

CustomerID	FirstName	! LustName !	DuteofBirth	Email
			10000 05 15	Lister also Marrill on
	John	Doe	1980 - 05 - 15	; john doe Egmall co
2	Jane	5 mith	1990-04-22	jone smith agmail.
3	Alun	Brown !	1485-09-30	alan. brown Dgma
//Accounts T	able			700 M2 M 1 1 1 1 1 1 1
CustomerID	AccountIO	AccountType	Balance	- 3
1	1	Sovings	5000.00	Carl Comment Pit
	2	Checking	2000.00	
2	3	Checking	1500.00	
3	1 4	Savings	4000.00	1931 1911 - 1911 - 1911
/Transaction	s Tuble			
ToansactionIs	AccountID	TransactionDo	ute Amount	Transaction Date
1	S14 1- /	12024 - 08 - 0	1 1000.00	Deposit
2	2	12024 - 08 - 02	1 500.00	Withdrawal
3	1 3/	1 2024 - 08 -0	3' 200.00	Deposit
4	4	12024-08-0	41 1 500 00	Withdrawal

a) (reating Views:

is (reating a simple view:

CREATE VIEW Customer Accounts Summary	AS
SELECT	
C. (ustomerID,	The Fill and all
c. FirstName,	
c. LastName.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
a. Account Type	
a. Account Type, a. Balance	TO FAULT ST
FROM	
Bank (ustomers c	
INNER JOIN	
Accounts a ON c. CustomerID = a. Cust	omerID;

ii) (Teating a view with "CHECK OPTION" :-

```
CREATE VIEW High Balance Accounts As

SELECT

Account ID,

Customer ID,

Account Type,

Balance

FROM

Accounts

WHERE

Balance > 3000

WITH CHECK OPTION;
```

b). Dropping / Selecting a view :
i) Selecting from a view:
SELECT * FROM (ustomer Accounts Summary:)

SELECT * FROM HighBalance Accounts;

(ustomer ID	FirstName	LastName	Accountype	Balance
1	John	Doe	Savings	5000.00
1	John	Doe	Checking	2000,00
2	June	Smith	Checking	1500.00
3	Han	Brown	Savings	4000.00
	1		7	

Savinas	5000.00
Checking	4000.00
	Savings (hecking

ii), Drapping a view :-

DROP VIEW Customer Accounts Summary;

DROP VIEW High Balance Accounts;