1. Table Creation Queries

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1.1 Create Bank Table
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CREATE TABLE Bank (
  branch_id INT PRIMARY KEY,
  branch_name VARCHAR(100),
  branch_city VARCHAR(100)
);
1.2 Create Account Holder Table
CREATE TABLE Account_Holder (
  account_holder_id INT PRIMARY KEY,
  account_no VARCHAR(20),
 account_holder_name VARCHAR(100),
  city VARCHAR(100),
  contact VARCHAR(15),
  date_of_account_created DATE,
  account_status VARCHAR(20),
  account_type VARCHAR(20),
 balance DECIMAL(10,2)
);
1.3 Create Loan Table
CREATE TABLE Loan (
 loan_no INT PRIMARY KEY,
  branch_id INT,
  account_holder_id INT,
  loan_amount DECIMAL(10,2),
```

loan_type VARCHAR(50),

```
FOREIGN KEY (branch_id) REFERENCES Bank(branch_id),
  FOREIGN KEY (account_holder_id) REFERENCES Account_Holder(account_holder_id)
);
2. SQL Transaction for Fund Transfer (Account A to Account B)
START TRANSACTION;
-- Deduct from Account A
UPDATE Account Holder
SET balance = balance - 100
WHERE account_no = 'A';
-- Add to Account B
UPDATE Account_Holder
SET balance = balance + 100
WHERE account no = 'B';
COMMIT;
3. Fetch Account Holders from Same City
SELECT *
FROM Account_Holder AH1
WHERE EXISTS (
 SELECT 1
  FROM Account_Holder AH2
 WHERE AH1.city = AH2.city
```

AND AH1.account_holder_id <> AH2.account_holder_id

);

4. Accounts Created After 15th of Any Month

SELECT account_no, account_holder_name

FROM Account Holder

WHERE DAY(date_of_account_created) > 15;

5. City Name and Branch Count

SELECT branch_city AS city, COUNT(*) AS Count_Branch

FROM Bank

GROUP BY branch city;

6. Join Query: Loan Details of Account Holders

SELECT AH.account_holder_id, AH.account_holder_name, L.branch_id, L.loan_amount FROM Account_Holder AH

JOIN Loan L ON AH.account_holder_id = L.account_holder_id;

Guide: How to Answer During Viva

- **Table Creation:** "I created 3 tables with correct relationships using Primary and Foreign keys."
- Transaction Query: "I safely transferred \$100 between two accounts using SQL transactions."
- Same City Query: "I used a subquery with EXISTS to find other users from the same city."
- 15th Day Filter: "I applied the DAY() function to get accounts made after 15th."
- Branch Count: "I used GROUP BY with COUNT() and gave it an alias Count_Branch."
- Join Query: "I joined the loan and account holder tables on account_holder_id to fetch the correct details."