**Assignment – 2**

CREATE TABLE Branch247 (

branch\_name VARCHAR(50) PRIMARY KEY,

branch\_city VARCHAR(50),

assets INT

);

CREATE TABLE Account247 (

acc\_no INT PRIMARY KEY,

branch\_name VARCHAR(50),

balance INT,

FOREIGN KEY (branch\_name) REFERENCES Branch247(branch\_name)

);

CREATE TABLE Customer247 (

cust\_name VARCHAR(50) PRIMARY KEY,

cust\_street VARCHAR(100),

cust\_city VARCHAR(50)

);

CREATE TABLE Depositor247 (

cust\_name VARCHAR(50),

acc\_no INT,

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

FOREIGN KEY (cust\_name) REFERENCES Customer247(cust\_name),

FOREIGN KEY (acc\_no) REFERENCES Account247(acc\_no)

);

CREATE TABLE Loan247 (

loan\_no INT PRIMARY KEY,

branch\_name VARCHAR(50),

amount INT,

FOREIGN KEY (branch\_name) REFERENCES Branch247(branch\_name)

);

CREATE TABLE Borrower247 (

cust\_name VARCHAR(50),

loan\_no INT,

PRIMARY KEY (cust\_name, loan\_no),

FOREIGN KEY (cust\_name) REFERENCES Customer247(cust\_name),

FOREIGN KEY (loan\_no) REFERENCES Loan247(loan\_no)

);

INSERT INTO Branch247 (branch\_name, branch\_city, assets) VALUES('Nigdi', 'Pune', 300000);

INSERT INTO Branch247 (branch\_name, branch\_city, assets) VALUES('Akurdi', 'Pune',

250000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(11, 'Nigdi', 20000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(12, 'Nigdi', 21000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(13, 'Nigdi', 34000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(14, 'Nigdi', 17000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(15, 'Nigdi', 91000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(16, 'Nigdi', 40000);

-- Inserting into Account247 for Akurdi branch

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(21, 'Akurdi', 33000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(22, 'Akurdi', 34000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(23, 'Akurdi', 35000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(24, 'Akurdi', 53000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(25, 'Akurdi', 76000);

INSERT INTO Account247 (acc\_no, branch\_name, balance) VALUES(26, 'Akurdi', 20000);

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Pranit', ' ABC

Street', 'Pune');

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Krushna', ' BCD

Street', 'Pune');

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Vedant', ' CDE

Street', 'Pune');

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Prateek', ' EFG

Street', 'Pune');

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Sameer', ' HIJ

Street', 'Pune');

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Devansh', 'KLM

Street', 'Pune');

INSERT INTO Customer247 (cust\_name, cust\_street, cust\_city) VALUES('Yash', 'NOP

Street', 'Pune');

-- Inserting into Depositor247 for Nigdi branch

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Pranit', 11);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Krushna', 12);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Vedant', 13);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Prateek', 14);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Sameer', 15);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Devansh', 16);

-- Inserting into Depositor247 for Akurdi branch

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Pranit', 21);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Krushna', 22);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Vedant', 23);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Prateek', 24);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Sameer', 25);

INSERT INTO Depositor247 (cust\_name, acc\_no) VALUES('Devansh', 26);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(501, 'Nigdi', 6000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(502, 'Nigdi', 7000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(503, 'Nigdi', 16000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(504, 'Nigdi', 12000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(505, 'Nigdi', 7000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(506, 'Nigdi', 35000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(601, 'Akurdi',15000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(602, 'Akurdi', 18000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(603, 'Akurdi',5000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(604, 'Akurdi',27000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(605, 'Akurdi', 14000);

INSERT INTO Loan247 (loan\_no, branch\_name, amount) VALUES(606, 'Akurdi',9000);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Pranit', 501);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Krushna', 502);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Vedant', 503);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Prateek', 504);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Sameer', 505);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Yash', 506);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Pranit', 601);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Krushna', 602);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Vedant', 603);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Prateek', 604);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Sameer', 605);

INSERT INTO Borrower247 (cust\_name, loan\_no) VALUES('Yash', 606);

Q1.

select branch\_name from Loan247;

| branch\_name |
| --- |
| Nigdi |
| Nigdi |
| Nigdi |
| Nigdi |
| Nigdi |
| Nigdi |
| Akurdi |
| Akurdi |
| Akurdi |
| Akurdi |
| Akurdi |
| Akurdi |

Q2.

select loan\_no from Loan247 where (branch\_name = 'Akurdi' AND amount > 12000);

| loan\_no |
| --- |
| 601 |
| 602 |
| 604 |
| 605 |

Q3.

SELECT cust\_name,Borrower247.loan\_no,amount FROM Borrower247 JOIN Loan247 ON Borrower247.loan\_no = Loan247.loan\_no;

| cust\_name | loan\_no | amount |
| --- | --- | --- |
| Pranit | 501 | 6000 |
| Krushna | 502 | 7000 |
| Vedant | 503 | 16000 |
| Prateek | 504 | 12000 |
| Sameer | 505 | 7000 |
| Yash | 506 | 35000 |
| Pranit | 601 | 15000 |
| Krushna | 602 | 18000 |
| Vedant | 603 | 5000 |
| Prateek | 604 | 27000 |
| Sameer | 605 | 14000 |
| Yash | 606 | 9000 |

Q4.

select cust\_name,l.loan\_no,amount from Loan247 l JOIN Borrower247 b ON l.loan\_no = b.loan\_no where branch\_name = 'Akurdi' order by b.cust\_name;

cust\_name loan\_no amount

Krushna 602 18000

Pranit 601 15000

Prateek 604 27000

Sameer 605 14000

Vedant 603 5000

Yash 606 9000

Q5.

select cust\_name from Depositor247 INTERSECT select cust\_name from Borrower247;

| cust\_name |
| --- |
| Krushna |
| Pranit |
| Prateek |
| Sameer |
| Vedant |

Q6.

select cust\_name from Depositor247 UNION select cust\_name from Borrower247;

| cust\_name |
| --- |
| Devansh |
| Krushna |
| Pranit |
| Prateek |
| Sameer |
| Vedant |
| Yash |

Q7.

select cust\_name from Depositor247 MINUS select cust\_name from Borrower247;

SELECT d.cust\_name

FROM Depositor247 d

LEFT JOIN Borrower247 b ON d.cust\_name = b.cust\_name

WHERE b.cust\_name IS NULL;

| cust\_name |
| --- |
| Devansh |

Q8.

SELECT AVG(balance) FROM Account247 GROUP BY branch\_name HAVING branch\_name = 'Akurdi';

| AVG(balance) |
| --- |
| 41833.333333333336 |

Q9.

SELECT AVG(balance),branch\_name FROM Account247 GROUP BY branch\_name;

| AVG(balance) | branch\_name |
| --- | --- |
| 41833.333333333336 | Akurdi |
| 37166.666666666664 | Nigdi |

Q10.

SELECT COUNT(\*),branch\_name FROM Account247 GROUP BY branch\_name;

| COUNT(\*) | branch\_name |
| --- | --- |
| 6 | Akurdi |
| 6 | Nigdi |

Q11.

SELECT AVG(balance),branch\_name FROM Account247 GROUP BY branch\_name HAVING AVG(balance)>12000;

| AVG(balance) | branch\_name |
| --- | --- |
| 41833.333333333336 | Akurdi |
| 37166.666666666664 | Nigdi |

Q12.

SELECT distinct \* from Customer247;

cust\_name cust\_street cust\_city

Devansh KLM Street Pune

Krushna BCD Street Pune

Pranit ABC Street Pune

Prateek EFG Street Pune

Sameer HIJ Street Pune

Vedant CDE Street Pune

Yash NOP Street Pune

Q13.

SELECT SUM(amount) AS Total\_Loan\_Amount FROM Loan247;

| Total\_Loan\_Amount |
| --- |
| 171000 |

Q14.

SELECT \* FROM Borrower247 WHERE loan\_no IN ( SELECT loan\_no FROM Loan247 WHERE amount >= 8000 AND amount <=9000);

|  |  |
| --- | --- |
| Yash | 606 |

cust\_name loan\_no

Yash 606

Q15.

DELETE FROM Borrower247 WHERE loan\_no IN ( SELECT loan\_no FROM Loan247 WHERE amount >= 8000 AND amount <=9000);

1 row deleted.

Q16.