

Farhan Ishrak
ID: 22101766
Section : 15

Answer

1.

```
SELECT customer.customer_name, borrower.loan_number
FROM customer
JOIN borrower ON customer.customer_id = borrower.customer_id
JOIN loan ON borrower.loan_number = loan.loan_number
WHERE loan.branch_name = 'Downtown';
```

| customer_name | loan_number |
|---------------|-------------|
| Johnson | L-14 |
| Jones | L-17 |
| Williams | L-17 |

2.

```
SELECT c1.customer_id as Customer1, c2.customer_id as Customer2,
c1.customer_city as City FROM customer c1, customer c2 WHERE
c1.customer_city=c2.customer_city and c1.customer_id!=c2.customer_id;
```

| Customer1 | Customer2 | City |
|-----------|-----------|------------|
| C-211 | C-101 | Harrison |
| C-212 | C-201 | Rye |
| C-101 | C-211 | Harrison |
| C-201 | C-212 | Rye |
| C-225 | C-215 | Pittsfield |
| C-255 | C-220 | Stamford |
| C-215 | C-225 | Pittsfield |
| C-220 | C-255 | Stamford |

3.

```
SELECT branch.branch_name,
```

```

SUM(account.balance * 0.04) AS Total_Interest
FROM branch
JOIN account ON branch.branch_name = account.branch_name
GROUP BY branch.branch_name;

```

| branch_name | Total_Interest |
|-------------|----------------|
| Brighton | 66.00 |
| Downtown | 20.00 |
| Mianus | 28.00 |
| Perryridge | 16.00 |
| Redwood | 28.00 |
| Round Hill | 14.00 |

4.

```

SELECT a.account_number, MAX(a.balance), c.customer_city FROM customer c,
depositor d, account a WHERE c.customer_id=d.customer_id and
d.account_number=a.account_number GROUP BY c.customer_city;

```

| account_number | MAX(a.balance) | customer_city |
|----------------|----------------|---------------|
| A-217 | 750 | Harrison |
| A-101 | 900 | Palo Alto |
| A-222 | 700 | Pittsfield |
| A-215 | 700 | Rye |
| A-305 | 350 | Stamford |

5.

```

SELECT loan.loan_number, loan.amount, customer.customer_name
FROM loan
JOIN borrower ON loan.loan_number = borrower.loan_number
JOIN customer ON borrower.customer_id = customer.customer_id
ORDER BY loan.amount DESC, loan.loan_number DESC
LIMIT 5;

```

| loan_number | amount ▼ 1 | customer_name |
|-------------|------------|---------------|
| L-23 | 2000 | Smith |
| L-15 | 1500 | Hayes |
| L-14 | 1500 | Johnson |
| L-16 | 1300 | Adams |
| L-17 | 1000 | Jones |

6.

```
SELECT DISTINCT c.customer_name
FROM customer c
JOIN depositor d ON c.customer_id = d.customer_id
JOIN account a ON d.account_number = a.account_number
JOIN borrower b ON c.customer_id = b.customer_id
JOIN loan l ON b.loan_number = l.loan_number
WHERE a.branch_name = 'Perryridge' AND l.branch_name = 'Perryridge';
```

| customer_name |
|---------------|
|---------------|

| |
|-------|
| Hayes |
|-------|

7.

```
SELECT customer.customer_name, SUM(loan.amount) AS total_loan
FROM customer
JOIN borrower ON customer.customer_id = borrower.customer_id
JOIN loan ON borrower.loan_number = loan.loan_number
GROUP BY customer.customer_id
HAVING COUNT(borrower.loan_number) >= 2;
```

| customer_name | total_loan |
|---------------|------------|
| Smith | 2900 |