

PROBLEM STATEMENT:

- h) Find all customers having accounts in the branch having the same city as the customer.
- i) Find branch wise customers having maximum balance in the respective branch.
- j) Find all customers with a name starting with 'A'
- k) Find all customers with a name starting with 'A' and surname is "Roy"
- l) Find all customers having loans of at least Rs. 1,00,000/- in the branch "Garia" of the city "Kolkata".

PROGRAM CODE AND OUTPUT:

NOTE: I update some record in the database DB_CMSA so that some of the above query must satisfied.

```
mysql> UPDATE Customer SET  
customer_city='KOLKATA',customer_street='GARIA' WHERE  
customer_id='C-07';
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE Customer SET customer_name='AVIJIT ROY' WHERE  
customer_id='C-03';
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE Loan SET amount=110001 WHERE loan_number='L-04';
```

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE Borrower SET customer_id='C-07' WHERE  
loan_number='L-04';
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

H)

```
mysql> SELECT customer_id, customer_name, customer_city,
branch_id, branch_city FROM Customer NATURAL JOIN Branch NATURAL
JOIN Depositor NATURAL JOIN Account where
customer_city=branch_city;
```

customer_id	customer_name	customer_city	branch_id	branch_city
C-01	ABHISEK MIDYA	KOLKATA	B-01	KOLKATA
C-02	AHIN SUBHRA HALDER	KOLKATA	B-04	KOLKATA
C-03	AVIJIT ROY	KOLKATA	B-01	KOLKATA
C-05	SUBHAJIT GARAI	KOLKATA	B-02	KOLKATA
C-06	SAGNIK KUMAR GHOSH	KOLKATA	B-03	KOLKATA
C-07	SUVAM PAL	KOLKATA	B-04	KOLKATA
C-08	RAKESH DAS	KOLKATA	B-03	KOLKATA
C-09	SUPRIO SAHA	KOLKATA	B-02	KOLKATA
C-10	BUDHADITTYA SARKAR	KOLKATA	B-04	KOLKATA

9 rows in set (0.00 sec)

I)

```
mysql> SELECT branch_id, MAX(balance) FROM Account GROUP BY branch_id;
```

branch_id	MAX(balance)
B-01	75000
B-02	96400
B-03	64000
B-04	11400
B-05	15000

5 rows in set (0.00 sec)

J)

```
mysql> SELECT * FROM Customer WHERE customer_name LIKE 'A%';
```

customer_id	customer_name	customer_street	customer_city
C-01	ABHISEK MIDYA	JADAVPUR	KOLKATA
C-02	AHIN SUBHRA HALDER	GARIA	KOLKATA
C-03	AVIJIT ROY	TOLLYGUNGE	KOLKATA

```
3 rows in set (0.00 sec)
```

K)

```
mysql> SELECT * FROM Customer WHERE customer_name LIKE 'A%ROY';
```

customer_id	customer_name	customer_street	customer_city
C-03	AVIJIT ROY	TOLLYGUNGE	KOLKATA

```
1 row in set (0.00 sec)
```

L)

```
mysql> SELECT * FROM Customer WHERE customer_id IN(  
    -> SELECT customer_id FROM Borrower WHERE loan_number IN(  
    -> SELECT loan_number FROM Loan WHERE amount > 100000  
    -> ));
```

customer_id	customer_name	customer_street	customer_city
C-07	SUVAM PAL	GARIA	KOLKATA

```
1 row in set (0.01 sec)
```