

Database Systems – Lab2

Lab Instructions-

You are supposed to check whether you have the 'bank' Database set-up on your local machines. If you do so then drop the database, and create a new database with the same name and use it.

```
mysql> create database bank;
```

```
mysql> use bank;
```

Once you've done this, download the bank.sql file (available on moodle) to your home directory. Then execute the following command in your terminal.

```
mysql> source bank.sql
```

Now that you have the database ready, you can start answering the seven questions given below, along with this some additional material has also been provided, that you may need to answer some of the questions.

Additional Material

LIMIT n:

Select first n entries from the table.

Eg. `SELECT * FROM TABLE_NAME LIMIT 2`

LIKE:

Lets say you want the average of all house loans. This instruction can be used for this purpose .

Eg. `SELECT AVG(AMOUNT) FROM LOAN WHERE LN_NO like 'hou%';`

ORDER BY :

Names of cities in **alphabetical order** where more than one loan has been issued.

Eg. `SELECT CITY FROM BRANCH,LOAN WHERE LOAN.BR_NAME=BRANCH.BRN_NAME GROUP BY BR_NAME HAVING COUNT(*) >1 ORDER BY CITY;`

Note : Use the 'desc' keyword if you want a descending order.

Questions

- 1) List all cities that have atleast the “fixeddeposit” facility in the lexicographic order.
(4m)
- 2) List all customer names in decreasing order of their loan amounts. If a person has taken more than one loans, then display all their loans.
(4m)
- 3) List the first two account numbers when arranged in ascending order when the accounts have been accessed on either the 1st or 12th day of the month.
(4m)
- 4) List all customer names in decreasing order of the **TOTAL** loan amounts. Print the loan amounts also.
(6m)
- 5) Display customer names of whose any loan has been payed more than once.
(6m)
- 6) Display the name and balance of all the customers who have accessed their accounts before 30th May 2012 and who also have taken more than one loan.
(8 m)
- 7) Display the name of the customers who have accessed their account atleast once and the city which has their account with an even zone branch. (zone2,zone4 etc).
(8m)