**Assignment 3**

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Design at least 10 SQL/NoSQL queries for suitable database application using SQL/NoSQL DML statements: Insert, Select, Update, Delete with operators, functions and set operator.

***Insert:-***

mysql> insert into customer values('Samkit','VIT Hostel Rd','Pune');

Query OK, 1 row affected (0.16 sec)

mysql> select \* from customer;

+---------------+-----------------+---------------+

| customer\_name | customer\_street | customer\_city |

+---------------+-----------------+---------------+

| Samkit | VIT Hostel Rd | Pune |

+---------------+-----------------+---------------+

1 row in set (0.00 sec)

mysql> insert into account

-> (branch\_name,balance,account\_number) values

-> ('Katraj',100000,'A-01');

Query OK, 1 row affected (0.08 sec)

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 100000 |

+----------------+-------------+---------+

1 row in set (0.00 sec)

mysql> insert into account (account\_number) values ('A-06');

Query OK, 1 row affected (0.09 sec)

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 100 |

| A-02 | Katraj | 1000 |

| A-03 | Kondhwa | 999 |

| A-04 | Kondhwa | 1999 |

| A-05 | Katraj | 199 |

| A-06 | NULL | NULL |

+----------------+-------------+---------+

6 rows in set (0.01 sec)

***Update:-***

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 15567 |

| A-02 | Kondhwa | 98567 |

| A-03 | Katraj | 156567 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

+----------------+-------------+---------+

5 rows in set (0.07 sec)

mysql> update account set balance=985677 where account\_number='A-02';

Query OK, 1 row affected (0.13 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 15567 |

| A-02 | Kondhwa | 985677 |

| A-03 | Katraj | 156567 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

+----------------+-------------+---------+

5 rows in set (0.00 sec)

***Delete:-***

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 15567 |

| A-02 | Kondhwa | 985677 |

| A-03 | Katraj | 156567 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

| A-06 | Kondhwa | 846468 |

+----------------+-------------+---------+

6 rows in set (0.00 sec)

mysql> delete from account where account\_number='A-06';

Query OK, 1 row affected (0.11 sec)

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 15567 |

| A-02 | Kondhwa | 985677 |

| A-03 | Katraj | 156567 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

+----------------+-------------+---------+

5 rows in set (0.00 sec)

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 15567 |

| A-02 | Kondhwa | 985677 |

| A-03 | Katraj | 156567 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

+----------------+-------------+---------+

5 rows in set (0.00 sec)

mysql> delete from account;

Query OK, 4 rows affected (0.05 sec)

mysql> select \* from account;

Empty set (0.00 sec)

***Select:-***

mysql> select \* from account;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-01 | Katraj | 15567 |

| A-02 | Kondhwa | 985677 |

| A-03 | Katraj | 156567 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

+----------------+-------------+---------+

5 rows in set (0.00 sec)

mysql> select distinct branch\_name from account;

+-------------+

| branch\_name |

+-------------+

| Katraj |

| Kondhwa |

+-------------+

2 rows in set (0.03 sec)

mysql> select all branch\_name from account;

+-------------+

| branch\_name |

+-------------+

| Katraj |

| Kondhwa |

| Katraj |

| Kondhwa |

| Katraj |

+-------------+

5 rows in set (0.00 sec)

mysql> select account\_number, balance+10,balance-10,balance\*10,balance/10

->from account;

+----------------+------------+------------+------------+------------+

| account\_number | balance+10 | balance-10 | balance\*10 | balance/10 |

+----------------+------------+------------+------------+------------+

| A-01 | 15577 | 15557 | 155670 | 1556.7000 |

| A-02 | 985687 | 985667 | 9856770 | 98567.7000 |

| A-03 | 156577 | 156557 | 1565670 | 15656.7000 |

| A-04 | 645624 | 645604 | 6456140 | 64561.4000 |

| A-05 | 754574 | 754554 | 7545640 | 75456.4000 |

+----------------+------------+------------+------------+------------+

5 rows in set (0.06 sec)

mysql> select account\_number, balance from account where balance>65000;

+----------------+---------+

| account\_number | balance |

+----------------+---------+

| A-02 | 985677 |

| A-03 | 156567 |

| A-04 | 645614 |

| A-05 | 754564 |

+----------------+---------+

4 rows in set (0.02 sec)

mysql> select \* from account where balance>65000 and branch\_name='Kondhwa';

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-02 | Kondhwa | 985677 |

| A-04 | Kondhwa | 645614 |

+----------------+-------------+---------+

2 rows in set (0.02 sec)

mysql> select \* from account where balance between 600000 and 1000000;

+----------------+-------------+---------+

| account\_number | branch\_name | balance |

+----------------+-------------+---------+

| A-02 | Kondhwa | 985677 |

| A-04 | Kondhwa | 645614 |

| A-05 | Katraj | 754564 |

+----------------+-------------+---------+

3 rows in set (0.01 sec)

mysql> select \* from depositor;

+------------------+----------------+

| customer\_name | account\_number |

+------------------+----------------+

| Aishwarya Jagtap | A-03 |

| Chinmay Jain | A-01 |

| Prachin Ranawat | A-04 |

| Prateek Sakaray | A-05 |

| Priyanka Sharma | A-02 |

| Samkit Jain | A-01 |

+------------------+----------------+

6 rows in set (0.00 sec)

mysql> select \* from branch;

+-------------+-------------+---------+

| branch\_name | branch\_city | assets |

+-------------+-------------+---------+

| Katraj | Pune | 9876543 |

| Kondhwa | Pune | 9675523 |

+-------------+-------------+---------+

2 rows in set (0.00 sec)

mysql> select \* from branch, depositor;

+-------------+-------------+---------+------------------+----------------+

| branch\_name | branch\_city | assets |customer\_name | account\_number |

+-------------+-------------+---------+------------------+----------------+

| Katraj | Pune | 9876543 | Aishwarya Jagtap | A-03 |

| Kondhwa | Pune | 9675523 | Aishwarya Jagtap | A-03 |

| Katraj | Pune | 9876543 | Chinmay Jain | A-01 |

| Kondhwa | Pune | 9675523 | Chinmay Jain | A-01 |

| Katraj | Pune | 9876543 | Prachin Ranawat | A-04 |

| Kondhwa | Pune | 9675523 | Prachin Ranawat | A-04 |

| Katraj | Pune | 9876543 | Prateek Sakaray | A-05 |

| Kondhwa | Pune | 9675523 | Prateek Sakaray | A-05 |

| Katraj | Pune | 9876543 | Priyanka Sharma | A-02 |

| Kondhwa | Pune | 9675523 | Priyanka Sharma | A-02 |

| Katraj | Pune | 9876543 | Samkit Jain | A-01 |

| Kondhwa | Pune | 9675523 | Samkit Jain | A-01 |

+-------------+-------------+---------+------------------+----------------+

12 rows in set (0.00 sec)

mysql> create table acc(name char(30))as select account\_number,balance

->from account;

Query OK, 5 rows affected (0.39 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from acc;

+------+----------------+---------+

| name | account\_number | balance |

+------+----------------+---------+

| NULL | A-01 | 15567 |

| NULL | A-02 | 985677 |

| NULL | A-03 | 156567 |

| NULL | A-04 | 645614 |

| NULL | A-05 | 754564 |

+------+----------------+---------+

5 rows in set (0.00 sec)

mysql> select account\_number as AC\_No, balance as Bal from account;

+-------+--------+

| AC\_No | Bal |

+-------+--------+

| A-01 | 15567 |

| A-02 | 985677 |

| A-03 | 156567 |

| A-04 | 645614 |

| A-05 | 754564 |

+-------+--------+

5 rows in set (0.00 sec)

mysql> select D.customer\_name,A.account\_number,branch\_name,balance

->from depositor as D,account as A

->whereD.account\_number=A.account\_number;

+------------------+----------------+-------------+---------+

| customer\_name | account\_number | branch\_name | balance |

+------------------+----------------+-------------+---------+

| Chinmay Jain | A-01 | Katraj | 15567 |

| Samkit Jain | A-01 | Katraj | 15567 |

| Priyanka Sharma | A-02 | Kondhwa | 985677 |

| Aishwarya Jagtap | A-03 | Katraj | 156567 |

| Prachin Ranawat | A-04 | Kondhwa | 645614 |

| Prateek Sakaray | A-05 | Katraj | 754564 |

+------------------+----------------+-------------+---------+

6 rows in set (0.00 sec)

mysql> select customer\_name from depositor where customer\_name like '%Jain%';

+---------------+

| customer\_name |

+---------------+

| ChinmayJain |

| Samkit Jain |

+---------------+

2 rows in set (0.02 sec)

mysql> select customer\_name from depositor

->where customer\_name like 'Pra\_\_\_\_\_\_\_\_\_\_\_\_';

+-----------------+

| customer\_name |

+-----------------+

| Prachin Ranawat |

| Prateek Sakaray |

+-----------------+

2 rows in set (0.00 sec)

mysql> select D.customer\_name,A.account\_number,branch\_name,balance

->from depositor as D,account as A

->whereD.account\_number=A.account\_number

->order by customer\_name;

+------------------+----------------+-------------+---------+

| customer\_name | account\_number | branch\_name | balance |

+------------------+----------------+-------------+---------+

| Aishwarya Jagtap | A-03 | Katraj | 156567 |

| Chinmay Jain | A-01 | Katraj | 15567 |

| Prachin Ranawat | A-04 | Kondhwa | 645614 |

| Prateek Sakaray | A-05 | Katraj | 754564 |

| Priyanka Sharma | A-02 | Kondhwa | 985677 |

| Samkit Jain | A-01 | Katraj | 15567 |

+------------------+----------------+-------------+---------+

6 rows in set (0.05 sec)

mysql> select D.customer\_name,A.account\_number,branch\_name,balance

->from depositor as D,account as A

->whereD.account\_number=A.account\_number

->order by customer\_name desc;

+------------------+----------------+-------------+---------+

| customer\_name | account\_number | branch\_name | balance |

+------------------+----------------+-------------+---------+

| Samkit Jain | A-01 | Katraj | 15567 |

| Priyanka Sharma | A-02 | Kondhwa | 985677 |

| Prateek Sakaray | A-05 | Katraj | 754564 |

| Prachin Ranawat | A-04 | Kondhwa | 645614 |

| Chinmay Jain | A-01 | Katraj | 15567 |

| Aishwarya Jagtap | A-03 | Katraj | 156567 |

+------------------+----------------+-------------+---------+

6 rows in set (0.00 sec)

mysql> select count(balance),avg(balance),sum(balance),min(balance),max(balance)

->from account;

+----------------+--------------+--------------+--------------+--------------+

| count(balance) | avg(balance) | sum(balance) | min(balance) | max(balance) |

+----------------+--------------+--------------+--------------+--------------+

| 5 | 859.4000 | 4297 | 100 | 1999 |

+----------------+--------------+--------------+--------------+--------------+

1 row in set (0.04 sec)

mysql> select branch\_name, count(distinct customer\_name)

->fromdepositor,account

->wheredepositor.account\_number=account.account\_number

->group by branch\_name;

+-------------+-------------------------------+

| branch\_name | count(distinct customer\_name) |

+-------------+-------------------------------+

| Katraj | 3 |

| Kondhwa | 2 |

+-------------+-------------------------------+

2 rows in set (0.02 sec)

mysql> select branch\_name,avg(balance) from account

->group by branch\_name having avg(balance)>600000;

+-------------+--------------+

| branch\_name | avg(balance) |

+-------------+--------------+

| Kondhwa | 815645.5000 |

+-------------+--------------+

1 row in set (0.06 sec)

mysql> select branch\_name,balance from account having balance>600000;

+-------------+---------+

| branch\_name | balance |

+-------------+---------+

| Kondhwa | 985677 |

| Kondhwa | 645614 |

| Katraj | 754564 |

+-------------+---------+

3 rows in set (0.00 sec)

mysql> select \* from sam;

+------+----------+

| rno | name |

+------+----------+

| NULL | NULL |

| 1 | Sam |

| 2 | chin |

| 3 | aish |

| 4 | prateek |

| 5 | priyanka |

| 6 | abha |

| NULL | Neena |

+------+----------+

8 rows in set (0.00 sec)

mysql> select \* from sam where rno is null;

+------+-------+

| rno | name |

+------+-------+

| NULL | NULL |

| NULL | Neena |

+------+-------+

2 rows in set (0.00 sec)

mysql> select \* from sam;

+------+------+

| rno | name |

+------+------+

| 1 | Sam |

| NULL | NULL |

+------+------+

2 rows in set (0.00 sec)

mysql> select count(\*) from sam;

+----------+

| count(\*) |

+----------+

| 2 |

+----------+

1 row in set (0.00 sec)

mysql> select count(name) from sam;

+-------------+

| count(name) |

+-------------+

| 1 |

+-------------+

1 row in set (0.00 sec)

mysql> select count(rno) from sam;

+------------+

| count(rno) |

+------------+

| 1 |

+------------+

1 row in set (0.00 sec)

***Set Operator:-***

mysql> (select customer\_name from depositor) union

-> (select customer\_name from customer);

+---------------+

| customer\_name |

+---------------+

| Aishwarya |

| Chinmay |

| Prachin |

| Prateek |

| Samkit |

| Chinmay Jain |

+---------------+

6 rows in set (0.00 sec)