**Assignment 4**

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Class: TEIT Roll. No.: 20 Batch:T1

Date:06/07/2015

Design at least 10 SQL/NoSQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View.

***Join:-***

mysql> select \* from account inner join depositor on

-> account.account\_number=depositor.account\_number;

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

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

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

| A-03 | Kondhwa | 999 | Aishwarya | A-03 |

| A-02 | Katraj | 1000 | Chinmay | A-02 |

| A-05 | Katraj | 199 | Prachin | A-05 |

| A-04 | Kondhwa | 1999 | Prateek | A-04 |

| A-01 | Katraj | 100 | Samkit | A-01 |

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

5 rows in set (0.11 sec)

mysql> select \* from account left outer join depositor on

-> account.account\_number=depositor.account\_number;

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

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

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

| A-03 | Kondhwa | 999 | Aishwarya | A-03 |

| A-02 | Katraj | 1000 | Chinmay | A-02 |

| A-05 | Katraj | 199 | Prachin | A-05 |

| A-04 | Kondhwa | 1999 | Prateek | A-04 |

| A-01 | Katraj | 100 | Samkit | A-01 |

| A-08 | Sheoganj | 15500 | NULL | NULL |

| A-09 | NULL | 513 | NULL | NULL |

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

7 rows in set (0.02 sec)

mysql> select \* from account right outer join depositor on

-> account.account\_number=depositor.account\_number;

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

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

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

| A-03 | Kondhwa | 999 | Aishwarya | A-03 |

| A-02 | Katraj | 1000 | Chinmay | A-02 |

| A-05 | Katraj | 199 | Prachin | A-05 |

| A-04 | Kondhwa | 1999 | Prateek | A-04 |

| A-01 | Katraj | 100 | Samkit | A-01 |

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

5 rows in set (0.00 sec)

mysql> select \* from account natural left outer join depositor;

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

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

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

| A-03 | Kondhwa | 999 | Aishwarya |

| A-02 | Katraj | 1000 | Chinmay |

| A-05 | Katraj | 199 | Prachin |

| A-04 | Kondhwa | 1999 | Prateek |

| A-01 | Katraj | 100 | Samkit |

| A-08 | Sheoganj | 15500 | NULL |

| A-09 | NULL | 513 | NULL |

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

7 rows in set (0.00 sec)

mysql> select \* from account natural right outer join depositor;

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

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

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

| A-03 | Aishwarya | Kondhwa | 999 |

| A-02 | Chinmay | Katraj | 1000 |

| A-05 | Prachin | Katraj | 199 |

| A-04 | Prateek | Kondhwa | 1999 |

| A-01 | Samkit | Katraj | 100 |

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

5 rows in set (0.00 sec)

mysql> select \* from account full left outer join depositor using(account\_number);

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

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

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

| A-03 | Kondhwa | 999 | Aishwarya |

| A-02 | Katraj | 1000 | Chinmay |

| A-05 | Katraj | 199 | Prachin |

| A-04 | Kondhwa | 1999 | Prateek |

| A-01 | Katraj | 100 | Samkit |

| A-08 | Sheoganj | 15500 | NULL |

| A-09 | NULL | 513 | NULL |

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

7 rows in set (0.00 sec)

mysql> select \* from account full right outer join depositor

-> using(account\_number);

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

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

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

| A-03 | Aishwarya | Kondhwa | 999 |

| A-02 | Chinmay | Katraj | 1000 |

| A-05 | Prachin | Katraj | 199 |

| A-04 | Prateek | Kondhwa | 1999 |

| A-01 | Samkit | Katraj | 100 |

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

5 rows in set (0.00 sec)

***Sub Query:-***

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 customer;

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

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

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

| Aishwarya Jagtap | Bharti Vidhyapeth | Pune |

| Chinmay Jain | VIT Hostel Road | Pune |

| Prachin Ranawat | Dattanagar | Pune |

| Prateek Sakaray | Lake Town | Pune |

| Samkit Jain | VIT Hostel Road | Pune |

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

5 rows in set (0.00 sec)

mysql> select customer\_name from depositor where customer\_name in

-> (select customer\_name from customer);

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

| customer\_name |

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

| Aishwarya Jagtap |

| Chinmay Jain |

| Prachin Ranawat |

| Prateek Sakaray |

| Samkit Jain |

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

5 rows in set (0.00 sec)

mysql> select customer\_name from depositor where customer\_name not in

-> (select customer\_name from customer);

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

| customer\_name |

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

| Priyanka Sharma |

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

1 row in set (0.06 sec)

mysql> select \* from branch;

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

| branch\_name | branch\_city | assets |

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

| Katraj | Pune | 9876543 |

| Kondhwa | Pune | 9675523 |

| Satara | Satara | 9765428 |

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

3 rows in set (0.02 sec)

mysql> select branch\_name from branch where assets>all

-> (select assets from branch where branch\_city='Satara');

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

| branch\_name |

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

| Katraj |

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

1 row in set (0.00 sec)

mysql> select branch\_name from branch where assets <some

-> (select assets from branch where branch\_city='Satara');

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

| branch\_name |

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

| Kondhwa |

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

1 row in set (0.00 sec)

***View:-***

mysql> create view cust as select customer\_name, customer\_city from customer;

Query OK, 0 rows affected (0.13 sec)

mysql> select \* from cust;

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

| customer\_name | customer\_city |

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

| Samkit | Pune |

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

1 row in set (0.08 sec)

mysql> insert into cust values('Aish','Satara');

Query OK, 1 row affected (0.06 sec)

mysql> select \* from cust;

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

| customer\_name | customer\_city |

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

| Aish | Satara |

| Samkit | Pune |

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

2 rows in set (0.02 sec)

mysql> select \* from customer;

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

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

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

| Aish | NULL | Satara |

| Samkit | VIT Hostel Rd | Pune |

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

2 rows in set (0.00 sec)

mysql> update cust set customer\_city='Pune' where customer\_name='Aish';

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from cust;

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

| customer\_name | customer\_city |

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

| Aish | Pune |

| Samkit | Pune |

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

2 rows in set (0.00 sec)

mysql> select \* from customer;

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

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

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

| Aish | NULL | Pune |

| Samkit | VIT Hostel Rd | Pune |

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

2 rows in set (0.00 sec)

mysql> delete from cust where customer\_name='Aish';

Query OK, 1 row affected (0.06 sec)

mysql> select \* from cust;

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

| customer\_name | customer\_city |

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

| Samkit | Pune |

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

1 row in set (0.00 sec)

mysql> select \* from customer;

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

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

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

| Samkit | VIT Hostel Rd | Pune |

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

1 row in set (0.00 sec)

mysql> show tables;

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

| Tables\_in\_sam |

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

| account |

| cust |

| customer |

| depositor |

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

4 rows in set (0.03 sec)

mysql> drop view cust;

Query OK, 0 rows affected (0.00 sec)

mysql> show tables;

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

| Tables\_in\_sam |

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

| account |

| customer |

| depositor |

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

3 rows in set (0.00 sec)