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Assignment No. 2

Aim: Design at least 10 SQL queries for suitab1le database application using SQL DML statements: Insert, Select, Update, Delete with operators, functions, and set operator, all types of Join, Sub-Query and View.

• Create table employe1e

mysql> create table employee(eno int primary key,ename varchar(25),job varchar(25),hiredate date,dept int,salary decimal(6,2));

Query OK, 0 rows affected (0.17 sec)

INSERT into table

5 rows in set (0.00 sec)

```
mysql> insert into employee values(101, 'Vijay', 'manager', '2001-04-24', 20, 2345.43);
Query OK, 1 row affected (0.05 sec)
mysql> insert into employee values(212, 'rahul', 'clerk', '2004-02-22', 10, 1225.33);
Query OK, 1 row affected (0.11 sec)
mysql> insert into employee values(103, mansi', 'salesman', '2009-12-03', 12, 4321.32);
Query OK, 1 row affected (0.06 sec)
mysql> insert into employee values(105, 'sachin', 'accountant', '2004-05-23', 09, 2221.32);
Query OK, 1 row affected (0.08 sec)
mysgl> insert into employee values(107, 'apurva', 'salesman', '2005-09-12', 03, 3456.75);
Query OK, 1 row affected (0.06 sec)
mysql> select * from employee;
 +----+
 | eno | ename | job | hiredate | dept | salary |
 +----+
 | 101 | Vijay | manager | 2001-04-24 | 20 | 2345.43 |
 | 103 | mansi | salesman | 2009-12-03 | 12 | 4321.32 |
 | 105 | sachin | accountant | 2004-05-23 | 9 | 2221.32 |
 | 107 | apurva | salesman | 2005-09-12 | 3 | 3456.75 |
 | 212 | rahul | clerk | 2004-02-22 | 10 | 1225.33 |
    ---+------+----------+
```

SELECT command

Used to select a particular column

mysql> select ename,job from employee where eno=107;
+-----+
| ename | job |
+-----+
| apurva | salesman |
+-----+
1 row in set (0.03 sec)

UPDATE command

Update record job=accountant where name is mansi

DELETE from employee Delete record where eno=103

• SET OPERATORS CREATE two tables

- 1.Graduates
- 2.Managers

```
mysql> create table graduates(gno int,name varchar(20),age int);

Query OK, 0 rows affected (0.11 sec)

mysql> insert into graduates values(123,'sachin',37);

Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into graduates values(101, 'saket', 39);
Query OK, 1 row affected (0.08 sec)
mysql> insert into graduates values(105, 'rahul', 35);
Query OK, 1 row affected (0.08 sec)
mysql> create table managers(mno int,name varchar(20),age int);
Query OK, 0 rows affected (0.23 sec)
mysql> insert into managers values(125, 'Yuvraj', 40);
Query OK, 1 row affected (0.06 sec)
mysql> insert into managers values(109, 'vijay', 39);
Query OK, 1 row affected (0.08 sec)
mysql> insert into managers values(113, 'Rahul', 35);
Query OK, 1 row affected (0.08 sec)
 mysql> select * from graduates;
 +----+
 | gno | name | age |
 | 123 | sachin | 37 |
 | 101 | saket | 39 |
 | 105 | rahul | 35 |
 +----+
```

3 rows in set (0.00 sec)

```
mysql> select * from managers;
+----+
| mno | name | age |
+----+
| 125 | Yuvraj | 40 |
| 109 | vijay | 39 |
| 113 | Rahul | 35 |
+----+
3 rows in set (0.00 sec)
```

UNION operator

Gives all values including duplicates

mysql> select name from graduates UNION select name from managers;
+-----+
| name |
+-----+
| sachin |
| saket |
| rahul |
| Yuvraj |
| vijay |

UNION ALL operator

5 rows in set (0.05 sec)

Gives all values including duplicates

mysql> select name from graduates UNION ALL select name from managers;

++			
name			
++			
sachin			
saket			
rahul			
Yuvraj			
vijay			
Rahul			
++			
6 rows in set (0.00 sec)			

• LIKE operator

```
mysql> select name from graduates where name like'_____';
+----+
| name |
+----+
| saket |
| rahul |
+-----+
2 rows in set (0.06 sec)
```

NOT LIKE operator

mysql> select name from graduates where name not like's%';

+----+

| name |

+----+

| rahul |

+----+

1 row in set (0.00 sec)

NOT BETWEEN operator

mysql> select * from managers where mno not between 102 and 110;

+----+

| mno | name | age |

+----+

| 125 | Yuvraj | 40 |

| 113 | Rahul | 35 |

+----+

2 rows in set (0.05 sec)

• BETWEEN operator

mysql> select * from managers where mno between 102 and 110;

+----+

| mno | name | age |

+----+

| 109 | vijay | 39 |

+----+

1 row in set (0.00 sec)

JOINS

```
mysql> create table student(rno int,name varchar(15),address varchar(20),age int);
Query OK, 0 rows affected (0.14 sec)
mysql> insert into student values(1,'harsh','delhi',38);
Query OK, 1 row affected (0.05 sec)
mysql> insert into student values(2,'pratik','bihar',18);
Query OK, 1 row affected (0.10 sec)
mysql> insert into student values(3, 'priyanka', 'kolkata', 20);
Query OK, 1 row affected (0.08 sec)
mysql> insert into student values(4,'rohit','alipur',25);
Query OK, 1 row affected (0.05 sec)
mysql> insert into student values(5,'dhanraj','ramnagar',22);
Query OK, 1 row affected (0.05 sec)
mysql> create table studentcourse(courseid int,rno int);
Query OK, 0 rows affected (0.09 sec)
mysql> insert into studentcourse values(1,1);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into studentcourse values(2,2);
Query OK, 1 row affected (0.02 sec)
mysql> insert into studentcourse values(3,3);
Query OK, 1 row affected (0.05 sec)
mysql> insert into studentcourse values(4,4);
Query OK, 1 row affected (0.11 sec)
mysql> insert into studentcourse values(5,5);
Query OK, 1 row affected (0.06 sec)
mysql> select * from student;
 +----+
 | rno | name | address | age |
 +----+
 | 1 | harsh | delhi | 38 |
 | 2 | pratik | bihar | 18 |
 | 3 | priyanka | kolkata | 20 |
 | 4 | rohit | alipur | 25 |
 | 5 | dhanraj | ramnagar | 22 |
 +----+
5 rows in set (0.00 sec)
mysql> select * from studentcourse;
+----+
 | courseid | rno |
```

+----+

INNER JOIN

mysql> select studentcourse.courseid,
student.name,student.age from student
INNER JOIN studentcourse
ON student.rno=studentcourse.rno;

```
+----+
| courseid | name | age |
+----+
| 1 | harsh | 38 |
| 2 | pratik | 18 |
| 3 | priyanka | 20 |
| 4 | rohit | 25 |
| 5 | dhanraj | 22 |
+----+
5 rows in set (0.00 sec)
```

LEFT JOIN

mysql> select student.name,studentcourse.courseid from student LEFT JOIN studentcourse ON studentcourse.rno=student.rno;

+	-+	+			
name	co	ourseid			
+	-+	+			
harsh		1			
pratik	1	2			
priyanl	ka	3			
rohit	1	4			
dhanra	aj	5			
+	-+	+			
5 rows in set (0.00 sec)					

RIGHT JOIN

mysql> select student.name,studentcourse.courseid from student RIGHT JOIN studentcourse ON studentcourse.rno=student.rno;

```
+----+
| name | courseid |
+----+
| harsh | 1 |
| pratik | 2 |
| priyanka | 3 |
| rohit | 4 |
| dhanraj | 5 |
```

+----+

5 rows in set (0.00 sec)