

DAY -1

1. a)

```
mysql> insert into emp(id,name,job,basic,da,hrs,pf,grosspay,netpay)
-> values(1,'leela','manager',200000,0,0,0,0,0),
-> (2,'vamsi','asst',10000,0,0,0,0,0),
-> (3,'krishna','receptionist',25000,0,0,0,0,0),
-> (4,'prasad','asst',30000,0,0,0,0,0),
-> (5,'veera','tester',45000,0,0,0,0,0);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> update emp
-> set
-> da=basic*0.3,
-> hrs=basic*0.4,
-> pf=basic*0.12,
-> grosspay=basic+da+hrs-pf,
-> netpay= grosspay-pf;
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5 Changed: 5 Warnings: 0
```

1.b)

```
mysql> select * from emp
-> where (job,basic) in (select job,min(basic) from emp group by job);
```

id	name	job	basic	da	hrs	pf	grosspay	netpay
1	leela	manager	200000.00	60000.00	80000.00	24000.00	316000.00	292000.00
2	vamsi	asst	10000.00	3000.00	4000.00	1200.00	15800.00	14600.00
3	krishna	receptionist	25000.00	7500.00	10000.00	3000.00	39500.00	36500.00
5	veera	tester	45000.00	13500.00	18000.00	5400.00	71100.00	65700.00

```
4 rows in set (0.02 sec)
```

1.c)

```
mysql> update emp
-> set
-> netpay=netpay+1200
-> where netpay <10000;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

1.d)

```
mysql> select * from emp
-> where grosspay between 10000 and 20000;
```

id	name	job	basic	da	hrs	pf	grosspay	netpay
2	vamsi	asst	10000.00	3000.00	4000.00	1200.00	15800.00	14600.00

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

1.e)

```
mysql> select * from emp
-> where basic in (select max(basic) from emp);
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | job | basic | da | hrs | pf | grosspay | netpay |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | leela | manager | 200000.00 | 60000.00 | 80000.00 | 24000.00 | 316000.00 | 292000.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

2.a)

```
mysql> update emp
-> set
-> sal=sal+sal*0.15
-> where datediff('2024-03-01','2009-04-03')>10;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

2.b)

```
mysql> delete from emp
-> where datediff('2024-03-01','1994-03-01')>=30;
Query OK, 0 rows affected (0.00 sec)
```

2. c)

```
mysql> select mgr,count(*) as emp_count
-> from empl
-> group by mgr
-> order by emp_count desc
-> limit 1;
+-----+-----+
| mgr | emp_count |
+-----+-----+
| priya | 2 |
+-----+-----+
1 row in set (0.00 sec)
```

3.a)

```
mysql> create table student(  
  -> stdid int primary key,  
  -> stdname varchar(20),  
  -> sex varchar(20),  
  -> percentage decimal(10,2),  
  -> sclass int,  
  -> sec varchar(10),  
  -> stream varchar(20),  
  -> dob date);  
Query OK, 0 rows affected (0.04 sec)
```

3.b)

```
mysql> insert into student(stdid,stdname,sex,percentage,sclass,sec,stream,dob)  
  -> values(12,'leela','male',88,12,'A','science','2005-08-25'),  
  -> (14,'vamsi','male',83,12,'A','science','2005-12-03'),  
  -> (23,'krishna','male',79,12,'A','science','2004-03-12'),  
  -> (43,'priya','female',92,12,'A','science','2005-03-18'),  
  -> (56,'balaji','male',89,12,'A','commerce','2004-09-21'),  
  -> (52,'rajesh','male',73,12,'A','commerce','2005-01-19');  
Query OK, 6 rows affected (0.01 sec)  
Records: 6 Duplicates: 0 Warnings: 0
```

3.c)

```
mysql> select * from student;  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| stdid | stdname | sex   | percentage | sclass | sec | stream | dob       |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| 12    | leela   | male  | 88.00      | 12     | A   | science | 2005-08-25 |  
| 14    | vamsi   | male  | 83.00      | 12     | A   | science | 2005-12-03 |  
| 23    | krishna | male  | 79.00      | 12     | A   | science | 2004-03-12 |  
| 43    | priya   | female | 92.00      | 12     | A   | science | 2005-03-18 |  
| 52    | rajesh  | male  | 73.00      | 12     | A   | commerce | 2005-01-19 |  
| 56    | balaji  | male  | 89.00      | 12     | A   | commerce | 2004-09-21 |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
6 rows in set (0.00 sec)
```

3.d)

```
mysql> select stdname,dob from student;  
+-----+-----+  
| stdname | dob       |  
+-----+-----+  
| leela   | 2005-08-25 |  
| vamsi   | 2005-12-03 |  
| krishna | 2004-03-12 |  
| priya   | 2005-03-18 |  
| rajesh  | 2005-01-19 |  
| balaji  | 2004-09-21 |  
+-----+-----+  
6 rows in set (0.00 sec)
```

3.e)

```
mysql> alter table student
-> add teacherid varchar(20);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

3.f)

```
mysql> select stdname,stream,percentage from student
-> where percentage >80;
+-----+-----+-----+
| stdname | stream | percentage |
+-----+-----+-----+
| leela   | science | 88.00 |
| vamsi   | science | 83.00 |
| priya   | science | 92.00 |
| balaji  | commerce | 89.00 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

3.g)

```
mysql> delete from student
-> where stdid =1016;
Query OK, 0 rows affected (0.01 sec)
```

3.h)

```
mysql> update student
-> set
-> stdname= 'Verma',
-> percentage=86
-> where stdid=1014;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

3.i)

```
mysql> alter table student
-> drop column teacherid;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

4.a)

```
mysql> create table customers(  
-> id int primary key,  
-> name varchar(20),  
-> age int,  
-> address varchar(20),  
-> salary int);  
Query OK, 0 rows affected (0.04 sec)
```

4.b)

```
mysql> insert into customers(id,name,age,address,salary)  
-> values(12,'john',23,'chennai',23000),  
-> (234,'leela',59,'tirupathi',50000),  
-> (213,'vamsi',52,'chennai',59000),  
-> (15,'krishna',34,'mumbai',45000),  
-> (23,'balaji',29,'hyderabad',50000);  
Query OK, 5 rows affected (0.01 sec)  
Records: 5 Duplicates: 0 Warnings: 0
```

4.c)

```
mysql> delete from customers  
-> where name='john';  
Query OK, 1 row affected (0.01 sec)
```

4.d)

```
mysql> update customers  
-> set  
-> salary= salary*0.12  
-> where age>50;  
Query OK, 2 rows affected (0.01 sec)  
Rows matched: 2 Changed: 2 Warnings: 0
```

4.e)

```
mysql> select name from customers;  
+-----+  
| name  |  
+-----+  
| krishna |  
| balaji  |  
| vamsi   |  
| leela   |  
+-----+  
4 rows in set (0.00 sec)
```

4.f)

```
mysql> select name,age from customers
-> order by age desc;
+-----+-----+
| name   | age   |
+-----+-----+
| leela  | 59    |
| vamsi  | 52    |
| krishna| 34    |
| balaji | 29    |
+-----+-----+
4 rows in set (0.00 sec)
```

4.g)

```
mysql> drop table customers;
Query OK, 0 rows affected (0.03 sec)
```

5.a)

```
mysql> select count(distinct p.did) from person p
-> join participated pa on p.did=pa.did
-> join owns o on o.did=pa.did
-> join accident a on pa.reportno=a.reportno
-> where year(a.date)='2007';
+-----+
| count(distinct p.did) |
+-----+
| 0 |
+-----+
1 row in set (0.01 sec)
```

5.b)

```
mysql> select count(distinct p.did) from person p
-> join owns o on p.did=o.did
-> join participated pa on pa.did=o.did
-> join accident a on a.reportno=pa.reportno
-> where p.name='ajay';
+-----+
| count(distinct p.did) |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)
```

5.c)

```
mysql> select count(distinct p.did) from person p
-> join participated pa on pa.did=p.did
-> join accident a on a.reportno=pa.reportno
-> where a.location='mumbai' and year(a.date)='2004';
```

```
+-----+
| count(distinct p.did) |
+-----+
|                0 |
+-----+
1 row in set (0.00 sec)
```