DAY – 2

1.a)

```
mysql> alter table emp
    -> add salary int;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

1.b)

```
mysql> alter table emp
    -> modify name varchar(10);
Query OK, 3 rows affected (0.10 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

1.c)

```
mysql> describe emp;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| name        | varchar(10) | YES  |     | NULL    |       |
| designation | varchar(20) | YES  |     | NULL    |       |
| branch      | varchar(20) | YES  |     | NULL    |       |
| salary      | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
4 rows in set (0.03 sec)
```

1.d)

```
mysql> alter table employee
    -> rename to emp;
Query OK, 0 rows affected (0.04 sec)
```

1.e)

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

1.f)

```
mysql> drop table emp;
Query OK, 0 rows affected (0.02 sec)
```

2.a)

```
mysql> select * from book;
+---------+---------------+-------+-------------+
| b_name  | author        | price | publisher   |
+---------+---------------+-------+-------------+
| DBMS    | seema kedhar  |   250 | charulatha  |
| TOC     | Johnmartin    |   400 | Tata mcgraw |
| c       | balagarus     |   300 | technical   |
+---------+---------------+-------+-------------+
3 rows in set (0.00 sec)
```

2.b)

```
mysql> select b_name from book
    -> where price >=300;
+--------+
| b_name |
+--------+
| TOC    |
| c      |
+--------+
2 rows in set (0.00 sec)
```

2.c)

```
mysql> insert into book(b_name,author,price,publisher)
    -> values('c++','sudhakar',400,'sundar');
Query OK, 1 row affected (0.01 sec)
```

2.d)

```
mysql> alter table book
    -> drop column author;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

3.a)

```
mysql> create table student(
    -> name varchar(20),
    -> regno int,
    -> gender char(1),
    -> dob date,
    -> mobileno int,
    -> city varchar(20));
Query OK, 0 rows affected (0.04 sec)
```

3.b)

```
for the right syntax to use near ' num
mysql>  create table faculty(
    -> facno varchar(20),
    -> facname varchar(20),
    ->  gender char(1),
    ->  dob date,
    ->  doj date,
    -> mobileno int);
Query OK, 0 rows affected (0.03 sec)
```

3.c)

```
mysql> create table department(
    -> deptno varchar(20),
    -> deotname varchar(20),
    -> depthead varchar(20));
Query OK, 0 rows affected (0.04 sec)
```

4.a)

```
mysql> alter table student
    -> add constraint pk_student primary key (regno);
Query OK, 0 rows affected (0.09 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> alter table student
    -> modify mobileno int not null;
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

4.b)

```
mysql> alter table faculty
    -> add constraint fn primary key(facno);
Query OK, 0 rows affected (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> alter table faculty
    -> add constraint checking check (gender in ('m' ,'f'));
Query OK, 0 rows affected (0.09 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

4.c)

```
mysql> alter table faculty
    -> add constraint fk foreign key (deptno) references department(deptno);
Query OK, 0 rows affected (0.09 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

5.

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

mysql> create table department(
    -> deptno int primary key,
    -> deptname varchar(20),
    -> deptloc varchar(20));
Query OK, 0 rows affected (0.03 sec)

mysql> create table jobs(
    -> jobname varchar(20) primary key,
    -> jobno int,
    -> jobsalary int);
Query OK, 0 rows affected (0.04 sec)

mysql> create table company(
    -> compname varchar(20) primary key,
    -> compaddress varchar(20));
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> alter table employee
    -> add deptno int;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table employee
    -> add constraint fk foreign key(deptno) references department(deptno);
Query OK, 0 rows affected (0.09 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> describe employee;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int         | NO   | PRI | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| job    | varchar(20) | YES  |     | NULL    |       |
| deptno | int         | YES  | MUL | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

```
mysql> alter table employee
    -> add constraint ok foreign key(compname) references company(compname);
Query OK, 0 rows affected (0.10 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> describe employee;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| id       | int         | NO   | PRI | NULL    |       |
| name     | varchar(20) | YES  |     | NULL    |       |
| job      | varchar(20) | YES  |     | NULL    |       |
| deptno   | int         | YES  | MUL | NULL    |       |
| compname | varchar(20) | YES  | MUL | NULL    |       |
+----------+-------------+------+-----+---------+-------+
```