

Day – 3

1.a)

```
Database changed
mysql> create table bank(
  -> s_no int,
  -> cust_name varchar(20),
  -> acc_no int,
  -> balance decimal(10,2),
  -> cas_branch varchar(20));
Query OK, 0 rows affected (0.12 sec)

mysql> insert into bank(s_no,cust_name,acc_no,balance,cas_branch)
  -> values(1,'leela',192210150,20000,'tirupathi'),
  -> (2,'vamsi',192211901,25000,'kurnool'),
  -> (3,'balaji',192211929,29000,'ananthapur');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from bank
  -> where s_no=2;
+-----+-----+-----+-----+-----+
| s_no | cust_name | acc_no | balance | cas_branch |
+-----+-----+-----+-----+-----+
| 2 | vamsi | 192211901 | 25000.00 | kurnool |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

1.b)

```
mysql> select * from bank
  -> where balance between 20000 and 30000;
+-----+-----+-----+-----+-----+
| s_no | cust_name | acc_no | balance | cas_branch |
+-----+-----+-----+-----+-----+
| 1 | leela | 192210150 | 20000.00 | tirupathi |
| 2 | vamsi | 192211901 | 25000.00 | kurnool |
| 3 | balaji | 192211929 | 29000.00 | ananthapur |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from bank
  -> where cas_branch in ('tirupathi','kurnool');
+-----+-----+-----+-----+-----+
| s_no | cust_name | acc_no | balance | cas_branch |
+-----+-----+-----+-----+-----+
| 1 | leela | 192210150 | 20000.00 | tirupathi |
| 2 | vamsi | 192211901 | 25000.00 | kurnool |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

1.c)

```
mysql> select * from bank
  -> where cust_name like '_a%';
+-----+-----+-----+-----+-----+
| s_no | cust_name | acc_no | balance | cas_branch |
+-----+-----+-----+-----+-----+
| 2 | vamsi | 192211901 | 25000.00 | kurnool |
| 3 | balaji | 192211929 | 29000.00 | ananthapur |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

1.4)

```
mysql> select location ,count(*) as count from project group by location;
+-----+-----+
| location | count |
+-----+-----+
| chennai  | 1     |
| tirupathi | 1     |
| vellore  | 1     |
+-----+-----+
3 rows in set (0.00 sec)
```

1.e)

```
mysql> select location,count(*) as count_
-> from project
-> group by location
-> having count_=1;
+-----+-----+
| location | count_ |
+-----+-----+
| chennai  | 1     |
| tirupathi | 1     |
| vellore  | 1     |
+-----+-----+
3 rows in set (0.00 sec)
```

1.f)

```
mysql> select cordinators from project
-> order by cordinators ;
+-----+
| cordinators |
+-----+
| balaji      |
| leela       |
| vamsi       |
+-----+
3 rows in set (0.00 sec)
```

2.a)

```
mysql> create table student(
-> name varchar(20),
-> score int,
-> assessment int);
Query OK, 0 rows affected (0.09 sec)

mysql> insert into student(
-> name,score,assessment)
-> values('leela',95,2),
-> ('vamsi',90,3),
-> ('balaji',97,1);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select name from student
-> where score > (select avg(score) from student);
+-----+
| name  |
+-----+
| leela |
| balaji |
+-----+
2 rows in set (0.01 sec)
```

2.b)

```
mysql> select name from student
      -> where assessment > 1;
+-----+
| name  |
+-----+
| leela |
| vamsi |
+-----+
2 rows in set (0.00 sec)
```

2.c)

```
mysql> select assessment ,score from student
      -> where score > (select avg(score) from student );
+-----+-----+
| assessment | score |
+-----+-----+
|          2 |     95 |
|          1 |     97 |
+-----+-----+
2 rows in set (0.00 sec)
```

2.d)

```
mysql> select name ,doj from faculty
      -> where doj >= (select max(doj) from faculty);
+-----+-----+
| name  | doj      |
+-----+-----+
| balaji | 2023-04-07 |
+-----+-----+
1 row in set (0.00 sec)
```

3.a)

```
mysql> create view employeetable as
      -> select s_no,name,deswignation,branch
      -> from employee;
Query OK, 0 rows affected (0.02 sec)

mysql> insert into employeetable(s_no,name,deswignation,branch)
      -> values(1,'leela','manager','chennai'),
      -> (2,'vamsi','asst','tirupathi'),
      -> (3,'balaji','tester','kurnool');
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

3.b)

```
mysql> create index index1 on employee(salary);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from employee
-> where salary>14000;
+-----+-----+-----+-----+-----+
| s_no | name | deswignation | branch | salary |
+-----+-----+-----+-----+-----+
| 1 | leela | manager | chennai | 20000.00 |
| 2 | vamsi | asst | kurnool | 25000.00 |
| 3 | balaji | tester | tirupathi | 30000.00 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> drop index1 on employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
for the right syntax to use near 'index1 on employee' at line 1
mysql> drop index1 from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
for the right syntax to use near 'index1 from employee' at line 1
mysql> drop index index1 on employee;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

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3. c)

```
mysql> create index index1 on employee(employee_id);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from employee
-> where employee_id=10;
+-----+-----+-----+-----+-----+-----+
| s_no | name | deswignation | branch | salary | employee_id |
+-----+-----+-----+-----+-----+-----+
| 1 | leela | manager | chennai | 20000.00 | 10 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

3.d)

```
mysql> create table dbms(
-> id int primary key auto_increment,
-> regno int);
Query OK, 0 rows affected (0.07 sec)

mysql> desc dbms;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | auto_increment |
| regno | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> insert into dbms(regno)
-> values(1),
-> (49),
-> (35);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from dbms;
+-----+-----+
| id | regno |
+-----+-----+
| 1 | 1 |
| 2 | 49 |
| 3 | 35 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> alter table dbms
-> modify id int;
Query OK, 3 rows affected (0.11 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

4.a)

```
mysql> create procedure cheker() begin set @x=0; if @x=0 then select 'true'; else select ' false'; end if; end //
Query OK, 0 rows affected (0.01 sec)

mysql> call cheker
-> ;
-> //
+-----+
| true |
+-----+
| true |
+-----+
1 row in set (0.00 sec)
```

4.b)

```
mysql> select score case when score>90 then 'A' when score >80 then 'B' when score >70 then 'C' end as grade from studen
t;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near 'case when score>90 then 'A' when score >80 then 'B' when score >70 then 'C' end ' at
line 1
mysql> select score, case when score>90 then 'A' when score >80 then 'B' when score >70 then 'C' end as grade from stud
ent;
+-----+-----+
| score | grade |
+-----+-----+
| 90 | B |
| 78 | C |
| 89 | B |
+-----+-----+
3 rows in set (0.00 sec)
```

4.c)

```
set @x = @x+1; -- at line 4
mysql> create procedure sare() begin set @x=0; my_loop : loop if @x>10 then leave my_loop; end if ; select @x; set @x
= @x+1; end loop my_loop; end //
Query OK, 0 rows affected (0.01 sec)
```

4. d)

```
mysql> use sys
Database changed
mysql> call sare();
+-----+
| @x |
+-----+
| 0 |
+-----+
1 row in set (0.00 sec)

+-----+
| @x |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)

+-----+
| @x |
+-----+
| 2 |
+-----+
1 row in set (0.00 sec)
```

5.a)

```
mysql> delimiter //
mysql> create trigger changing_man before update on employye for each row begin if new.id<>old.id or new.name <> old.name or new.email<>old.email then insert into emp(id,name,email,changetype) values(old.id,old.name,old.email,'update'); end if; end;
-> //
Query OK, 0 rows affected (0.01 sec)
```

5.b)

```
mysql> select * from emp;
-> //
```

id	name	email	changetype	changedate
134	vamsi	vamsi@13	update	2024-03-04 16:32:02
134	vamsi	vamsi@13	update	2024-03-04 16:32:02

2 rows in set (0.00 sec)