Question -2

① CREATE DATABASE test 2;
② SELECT the current database;
x USE test 2;

> Show tables.

② ⓐ create employee (emp_no, emp_name, DOB, address
     doj, mobile_no, dept_no, salary);
   > CREATE TABLE employee (emp_no int primary key, not null,
     emp_name varchar (25) not null, DOB date not null
     address varchar (50) not null, doj date not null,
     mobiles_no int not null, dept_no int
     not null, salary int not null);

   ⓑ CREATE TABLE department (dep_no int primary
     key not null, dept_name varchar (25), location
     varchar (25));

> INSERT INTO employee (emp_no, emp_name, DOB, address
  doj, mobile_no, dept_no, salary) values (1,
  'john', 1999- 08-29, 'USA', 2020-02-03, 78909642
  101, 10001);

> insert into employee (emp_no, emp_name, DOB, address
  doj, mobile_no, dept_no, salary) Values (2, 'Abhinav',
  '2000 -08-09, 'Kannur', '2019 -05- 10', 9846936111 , 102,
  30000);

```sql
> INSERT INTO employee (emp_no, emp_name, DOB, address,
doj, mobile_no, dept_no, salary) value (3, 'Aishori,
'1988-02-12', 'Delhi', '2020-07-09', 839383939, 103, 45000);

> INSERT INTO employee (emp_no, emp_name, DOB, address,
doj, mobile_no, dept_no, salary) value (4, 1998-05-09'
Mahe', '2020-08-09', 83083911, 101, 25000);

> INSERT into employee (emp_no, emp_name, DOB, address,
doj, mobile_no, dept_no, salary) Value (5, 'ramiri,
'1997-05-04', 'Mumbai', '2018-01-01', 63083900, 102,
. 35000);

> INSERT into employee (emp_no, emp_name, DOB,
address, doj, mobile_no, dept_no, salary) value (6, 'Pramod
'1996-12-07', 'Mumbai, '2018-11-09', 53083604, 103,
25000);

> INSERT into employee (emp_no, emp_name, DOB, address
doj, mobile_no, dept_no, salary) value (7, 'Dythi',
'1997-02-02', kerala', '2018-10-02', 63083803, 103,
15000);

> INSERT into department (dept_no, dept_name, location)
Values (101, 'education', 'wayanad');

> INSERT into department (dept_no, dept_name, location)
Value (102, 'sports', 'mumbai');

> INSERT into department (dept_no, dept_name, location
value (103, 'tourism', 'kolkata');
```

(ii) Display all the record from the above tables.

> SELECT * FROM employee;

> SELET * FROM department;

(iii) Display the empno and name of all the employees from depart no2.

> ALTER TABLE employee
  → ADD column Designation varchar (25);

> update employee
  → set Designation = "assistant" where emp_no=1;

> Update employee
  → set Designation = "Typist" where emp_no=2;

> update employee
  → set Designation = "clerk" where emp_no=3;

> update employee
  → set Designation = "Manager" where emp_no=4;

> update employee
  → Set Designation = "Administrator" where emp_no=5

> update employee
  → set Designation = "Coordinator" where emp_no=6;

> update employee
  → set Designation = "Administrator" where emp_no=7

> SELECT * from employee;

--- Add a new column Designation to the employee table.

> Select emp_no from employee;

(iv) Display emp_name, designation, dept_no and salary in the descending order of salary

> Select employee, emp_name, designation, dept_no, salary from employee order by salary desc;

(v) Display the empno and name of all employees whose salary is between 20000 & 40000

> SELECT emp_no, emp_name from employee where salary >20000 and salary <40000;

(vi) Display all designation without duplicate values;

> SELECT DISTINCT designation from employee;

(vii) Display the dept name and total salary of employee of each department.

> SELECT department, dept_name, result. tot_sal from department;

→ (select employee, dept_no, sum (employee, salary) tot_sal from employee group by dept_no) result where result.dept_no = department.dept_no;

(ix) change the mobile no of employee name 'John'

   UPDATE employee;
   → SET mobile_no = '98 554643'
   → where emp_name = 'John';

(viii) Change the salary of employee to 25000 whose designation is Typist

> Update employee
  set salary = 25000 where designation = "Typist";

(x) Delete all employees whose salaries are equal to x.

> Delete from employee where salary = 25000;

(xi) Select the department that has a total salary paid for its employees more than 30000;

> ~~DELETE from~~

> SELECT department.dept_name
  → from
  → department, (select dept_no, sum(salary) salary
    from employee group by dept_no) result
  → where
  → department.dept_no = result.dept_no and
    salary > 30000;

```
Enter password: *************
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 30
Server version: 8.0.20 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>  CREATE DATABASE test2;
Query OK, 1 row affected (0.01 sec)

mysql> use test2;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> CREATE TABLE employee (emp_no int primary key not null,emp_name varchar(25) not null,DOB date not null, address varchar(50) not null, doj date not null
, mobile_no int not null, dept_no int not null,salary int not null);
Query OK, 0 rows affected (0.05 sec)

mysql>  CREATE TABLE department (dept_no int primary key not null, dept_name varchar(25), location varchar(25));
Query OK, 0 rows affected (0.40 sec)

mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (1,'John',1999-08-29,'USA',2020-02-03,789096427,101,10001);
ERROR 1292 (22007): Incorrect date value: '1962' for column 'DOB' at row 1
mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (1,'John','1999-08-29','USA','2020-02-03',789096427,101,1000
1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (3,'Kishor','1998-02-12','Delhi','2020-07-09',839383939,103,
45000);
Query OK, 1 row affected (0.01 sec)

mysql>  INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (2,'Abhinav','2000-08-29','kannur','2019-05-10',984693611,1
02,30000);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (4,'Aswanth','1998-05-09','MAhe','2020-08-09',83083911,101,2
5000);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (5,'ramshi','1997-05-04','Mumbai','2018-01-01,63083900,102,3
5000);
    '> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (5,'ramshi','1997-05-04','Mumbai','2018-01-01,63083900,102,3
5000);^C
```

```
5000);^C
mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (5,'ramshi','1997-05-04','Mumbai','2018-01-01,63083900,102,3
5000);
    '>
    '> ;
    '> ^C
mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (5,'ramshi','1997-05-04','Mumbai','2018-01-01',63083900,102,
35000);
Query OK, 1 row affected (0.01 sec)

mysql>  INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (6,'Pramod','1996-12-07','Mumbai','2018-11-09',53083604,103
,25000);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employee (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no,salary) VALUES (7,'Dyuthi','1997-02-02','kerala','2018-10-02',63083603,103,
15000);
Query OK, 1 row affected (0.01 sec)

mysql>  INSERT INTO  department (dept_no, dept_name, location) VALUES (101,'education','wayanad');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO  department (dept_no, dept_name, location) VALUES (102,'sports','mumbai');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO  department (dept_no, dept_name, location) VALUES (103,'tourism','kolkata');
Query OK, 1 row affected (0.01 sec)

mysql> SELECT *FROM employee;
+--------+----------+------------+---------+------------+-----------+---------+--------+
| emp_no | emp_name | DOB        | address | doj        | mobile_no | dept_no | salary |
+--------+----------+------------+---------+------------+-----------+---------+--------+
|      1 | John     | 1999-08-29 | USA     | 2020-02-03 | 789096427 |     101 |  10001 |
|      2 | Abhinav  | 2000-08-29 | kannur  | 2019-05-10 | 984693611 |     102 |  30000 |
|      3 | Kishor   | 1998-02-12 | Delhi   | 2020-07-09 | 839383939 |     103 |  45000 |
|      4 | Aswanth  | 1998-05-09 | MAhe    | 2020-08-09 |  83083911 |     101 |  25000 |
|      5 | ramshi   | 1997-05-04 | Mumbai  | 2018-01-01 |  63083900 |     102 |  35000 |
|      6 | Pramod   | 1996-12-07 | Mumbai  | 2018-11-09 |  53083604 |     103 |  25000 |
|      7 | Dyuthi   | 1997-02-02 | kerala  | 2018-10-02 |  63083603 |     103 |  15000 |
+--------+----------+------------+---------+------------+-----------+---------+--------+
7 rows in set (0.00 sec)

mysql> SELECT *FROM department;
+---------+-----------+----------+
| dept_no | dept_name | location |
+---------+-----------+----------+
|     101 | education | wayanad  |
|     102 | sports    | mumbai   |
|     103 | tourism   | kolkata  |
+---------+-----------+----------+
3 rows in set (0.00 sec)
```

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MySQL 8.0 Command Line Client - Unicode

3 rows in set (0.00 sec)

mysql>  update employee
    ->      -> set Designation="assistant"where emp_no=2;
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 '->
set Designation="assistant"where emp_no=2' at line 2
mysql> update employee
    -> ^C
mysql> ALTER TABLE employee
    ->      -> ADD COLUMN Designation varchar(25);
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 '->
ADD COLUMN Designation varchar(25)' at line 2
mysql> ALTER TABLE employee
    -> ADD COLUMN Designation varchar(25);
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> update employee
    ->  set Designation="assistant"where emp_no=1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
    ->  set Designation=" Typist"where emp_no=2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
    ->  set Designation="^Chere emp_no=1;
mysql> update employee
    ->  set Designation=" Clerk"where emp_no=3;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
    ->  set Designation=" Manager"where emp_no=4;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
    ->  set Designation="Administrator "where emp_no=5;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
    ->  set Designation="Coordinator"where emp_no=6;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
```

```
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update employee
    ->  set Designation="Administrator "where emp_no=7;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT *FROM employee;
+--------+----------+------------+---------+------------+------------+---------+--------+---------------+
| emp_no | emp_name | DOB        | address | doj        | mobile_no  | dept_no | salary | Designation   |
+--------+----------+------------+---------+------------+------------+---------+--------+---------------+
|      1 | John     | 1999-08-29 | USA     | 2020-02-03 | 789096427  |     101 |  10001 | assistant     |
|      2 | Abhinav  | 2000-08-29 | kannur  | 2019-05-10 | 984693611  |     102 |  30000 |  Typist       |
|      3 | Kishor   | 1998-02-12 | Delhi   | 2020-07-09 | 839383939  |     103 |  45000 |  Clerk        |
|      4 | Aswanth  | 1998-05-09 | MAhe    | 2020-08-09 | 83083911   |     101 |  25000 |  Manager      |
|      5 | ramshi   | 1997-05-04 | Mumbai  | 2018-01-01 | 63083900   |     102 |  35000 | Administrator |
|      6 | Pramod   | 1996-12-07 | Mumbai  | 2018-11-09 | 53083604   |     103 |  25000 | Coordinator   |
|      7 | Dyuthi   | 1997-02-02 | kerala  | 2018-10-02 | 63083603   |     103 |  15000 | Administrator |
+--------+----------+------------+---------+------------+------------+---------+--------+---------------+
7 rows in set (0.00 sec)

mysql> SELECT emp_no from employee
    -> ;
+--------+
| emp_no |
+--------+
|      1 |
|      2 |
|      3 |
|      4 |
|      5 |
|      6 |
|      7 |
+--------+
7 rows in set (0.00 sec)

mysql>  SELECT emp_no,emp_name,designation,dept_no,salary from employee order by salary desc
    -> ;
+--------+----------+---------------+---------+--------+
| emp_no | emp_name | designation   | dept_no | salary |
+--------+----------+---------------+---------+--------+
|      3 | Kishor   |  Clerk        |     103 |  45000 |
|      5 | ramshi   | Administrator |     102 |  35000 |
|      2 | Abhinav  |  Typist       |     102 |  30000 |
|      4 | Aswanth  |  Manager      |     101 |  25000 |
|      6 | Pramod   | Coordinator   |     103 |  25000 |
|      7 | Dyuthi   | Administrator |     103 |  15000 |
|      1 | John     | assistant     |     101 |  10001 |
+--------+----------+---------------+---------+--------+
7 rows in set (0.00 sec)
```

```
7 rows in set (0.00 sec)

mysql> SELECT emp_no,emp_name from employee where salary>20000 and salary<40000;
+--------+----------+
| emp_no | emp_name |
+--------+----------+
|      2 | Abhinav  |
|      4 | Aswanth  |
|      5 | ramshi   |
|      6 | Pramod   |
+--------+----------+
4 rows in set (0.00 sec)

mysql>  SELECT DISTINCT designation from employee
    -> ;
+---------------+
| designation   |
+---------------+
| assistant     |
|  Typist       |
|  Clerk        |
|  Manager      |
| Administrator |
| Coordinator   |
+---------------+
6 rows in set (0.00 sec)

mysql>  SELECT department.dept_name,result.tot_sal from department,
    -> (select employee.dept_no,sum(employee.salary)tot_sal from employee group by dept_no)result
    ->  where result.dept_no=department.dept_no;
+-----------+---------+
| dept_name | tot_sal |
+-----------+---------+
| education |   35001 |
| sports    |   65000 |
| tourism   |   85000 |
+-----------+---------+
3 rows in set (0.00 sec)

mysql> update employee
    -> SET salary=25000 where designation ='Typist'
    -> ;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> UPDATE employee
    -> set mobile_no='78554673'
    -> where emp_name='john';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT *FROM employee;
+--------+----------+------------+---------+------------+-----------+---------+--------+-----------------+
| emp_no | emp_name | DOB        | address | doj        | mobile_no | dept_no | salary | Designation     |
+--------+----------+------------+---------+------------+-----------+---------+--------+-----------------+
|      1 | John     | 1999-08-29 | USA     | 2020-02-03 |  78554673 |     101 |  10001 | assistant       |
|      2 | Abhinav  | 2000-08-29 | kannur  | 2019-05-10 | 984693611 |     102 |  30000 |  Typist         |
|      3 | Kishor   | 1998-02-12 | Delhi   | 2020-07-09 | 839383939 |     103 |  45000 |  Clerk          |
|      4 | Aswanth  | 1998-05-09 | MAhe    | 2020-08-09 |  83083911 |     101 |  25000 |  Manager        |
|      5 | ramshi   | 1997-05-04 | Mumbai  | 2018-01-01 |  63083900 |     102 |  35000 | Administrator   |
|      6 | Pramod   | 1996-12-07 | Mumbai  | 2018-11-09 |  53083604 |     103 |  25000 | Coordinator     |
|      7 | Dyuthi   | 1997-02-02 | kerala  | 2018-10-02 |  63083603 |     103 |  15000 | Administrator   |
+--------+----------+------------+---------+------------+-----------+---------+--------+-----------------+
7 rows in set (0.00 sec)

mysql>  DELETE from employee where salary=25000;
Query OK, 2 rows affected (0.02 sec)

mysql> SELECT department.dept_name
    -> from
    -> department,(SELECT dept_no,SUM(salary)salary from employee GROUP BY dept_no)result
    -> where
    -> department.dept_no=result.dept_no AND salary>30000;
+-----------+
| dept_name |
+-----------+
| sports    |
| tourism   |
+-----------+
2 rows in set (0.00 sec)

mysql> SELECT *FROM employee;
+--------+----------+------------+---------+------------+-----------+---------+--------+-----------------+
| emp_no | emp_name | DOB        | address | doj        | mobile_no | dept_no | salary | Designation     |
+--------+----------+------------+---------+------------+-----------+---------+--------+-----------------+
|      1 | John     | 1999-08-29 | USA     | 2020-02-03 |  78554673 |     101 |  10001 | assistant       |
|      2 | Abhinav  | 2000-08-29 | kannur  | 2019-05-10 | 984693611 |     102 |  30000 |  Typist         |
|      3 | Kishor   | 1998-02-12 | Delhi   | 2020-07-09 | 839383939 |     103 |  45000 |  Clerk          |
|      5 | ramshi   | 1997-05-04 | Mumbai  | 2018-01-01 |  63083900 |     102 |  35000 | Administrator   |
|      7 | Dyuthi   | 1997-02-02 | kerala  | 2018-10-02 |  63083603 |     103 |  15000 | Administrator   |
+--------+----------+------------+---------+------------+-----------+---------+--------+-----------------+
5 rows in set (0.00 sec)

mysql> _
```