

Name : Gayathri Devi

Id : 11954

Day 4 : 4.10.2023

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 24

Server version: 8.0.33 MySQL Community Server - GPL

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

mysql> show databases;

```
+-----+
| Database          |
+-----+
| assignments       |
| day1_mysqlatabase |
| gayathrikuppusamy |
| information_schema |
| mysql             |
| performance_schema |
| sakila            |
| sys               |
| world             |
+-----+
```

9 rows in set (0.01 sec)

mysql> use day1_mysqlatabse;

ERROR 1049 (42000): Unknown database 'day1_mysqlatabse'

mysql> use day1_mysqlatabalse;

ERROR 1049 (42000): Unknown database 'day1_mysqlatabalse'

mysql> use day1_mysqlatabase;

Database changed

mysql> show tables;

```
+-----+
| Tables_in_day1_mysql |
+-----+
| tbl_dept              |
| tbl_employee          |
| tbl_student           |
+-----+
3 rows in set (0.01 sec)
```

mysql> select * from tbl_employee;

Empty set (0.01 sec)

mysql> select * from tbl_student;

```
+-----+-----+-----+
| srno | sname | smarks |
+-----+-----+-----+
| 1    | Sakthi | 100    |
| 2    | vel   | 1000   |
| 3    | Sakthi | 100000000 |
| 98   | vel   | 1000   |
| 99   | Sakthi | 0      |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

mysql> select * from tbl_employee;

Empty set (0.00 sec)

mysql> desc tbl_employee;

```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eid   | int       | NO   | PRI | NULL    |       |
| ename | varchar(20) | YES  |     | NULL    |       |
| esal  | int       | YES  |     | NULL    |       |
| dno   | int       | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

```
mysql> insert into tbl_employee values(101,"Gayathri",1000,10);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails
(`day1_mysqlatabase`.`tbl_employee`, CONSTRAINT `tbl_employee_ibfk_1` FOREIGN KEY
(`dno`) REFERENCES `tbl_dept` (`dno`))
```

```
mysql> select * from tbl_dept;
```

Empty set (0.00 sec)

```
mysql> insert into tbl_dept values(10,"LD");
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into tbl_dept values(20,"Project");
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into tbl_employee values(101,"Gayathri",1000,10);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into tbl_employee values(102,"Devi",1000,20);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from tbl_dept;
```

```
+-----+-----+
| dno | dname |
+-----+-----+
| 10 | LD    |
| 20 | Project |
+-----+-----+
```

2 rows in set (0.00 sec)

```
mysql> select * from tbl_employee;
```

```
+-----+-----+-----+-----+
| eid | ename | esal | dno |
+-----+-----+-----+-----+
| 101 | Gayathri | 1000 | 10 |
| 102 | Devi    | 1000 | 20 |
+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

```
mysql> commit;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> create table tbl_employee1 as select * from tbl_employee;
```

Query OK, 2 rows affected (0.04 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> select * from tbl_employee1;
```

```
+-----+-----+-----+-----+
| eid | ename  | esal | dno |
+-----+-----+-----+-----+
| 101 | Gayathri | 1000 | 10 |
| 102 | Devi   | 1000 | 20 |
+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

```
mysql> desc tbl_employee1;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eid   | int       | NO   |     | NULL    |       |
| ename | varchar(20) | YES  |     | NULL    |       |
| esal  | int       | YES  |     | NULL    |       |
| dno   | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> create table tbl_employee2 as select * from tbl_employee where 1=2;
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc tbl_employee2;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eid   | int       | NO   |     | NULL    |       |
| ename | varchar(20) | YES  |     | NULL    |       |
| esal  | int       | YES  |     | NULL    |       |
| dno   | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select * from tbl_employee2;
```

Empty set (0.00 sec)

```
mysql> desc tbl_employee1;
```

Field	Type	Null	Key	Default	Extra
eid	int	NO		NULL	
ename	varchar(20)	YES		NULL	
esal	int	YES		NULL	
dno	int	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> select * from tbl_employee1;
```

eid	ename	esal	dno
101	Gayathri	1000	10
102	Devi	1000	20

2 rows in set (0.00 sec)

```
mysql> insert into tbl_employee1 values(103,"Naveen",2000,20);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into tbl_employee1 values(104,"Pravin",3000,20);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into tbl_employee1 values(105,"Muthu",4000,10);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> commit;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> select * from tbl_employee1;
```

eid	ename	esal	dno
101	Gayathri	1000	10

102	Devi	1000	20
103	Naveen	2000	20
104	Pravin	3000	20
105	Muthu	4000	10
+-----+-----+-----+-----+			

5 rows in set (0.00 sec)

mysql> select count(*) from tbl_employee1;

+-----+	
count(*)	
+-----+	
5	
+-----+	

1 row in set (0.01 sec)

mysql> select dno, count(*) from tbl_employee1 group by dno;

+-----+-----+	
dno	count(*)
+-----+-----+	
10	2
20	3
+-----+-----+	

2 rows in set (0.00 sec)

**mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno;**

+-----+-----+	
Department Number	Number of Employees
+-----+-----+	
10	2
20	3
+-----+-----+	

2 rows in set (0.00 sec)

mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno order by desc;

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 'desc' at line 1

```
mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno;
```

```
+-----+-----+
| Department Number | Number of Employees |
+-----+-----+
|          10      |          2          |
|          20      |          3          |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno
```

```
-> order by desc;
```

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 'desc' at line 2

```
mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno desc;
```

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 'desc' at line 1

```
mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno
```

```
-> order by dno ascn;
```

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 'ascn' at line 2

```
mysql> select dno as "Department Number", count(*) as "Number of Employees" from
tbl_employee1 group by dno order by dno desc;
```

```
+-----+-----+
| Department Number | Number of Employees |
+-----+-----+
|          20      |          3          |
|          10      |          2          |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select sum(*) from tbl_employee1;
```

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 '*) from tbl_employee1' at line 1

```
mysql> select sum(esal) from tbl_employee1;
```

```
+-----+
| sum(esal) |
+-----+
|   11000 |
+-----+
1 row in set (0.01 sec)
```

```
mysql> select sum(esal) from tbl_employee1 group by esal;
```

```
+-----+
| sum(esal) |
+-----+
|   2000 |
|   2000 |
|   3000 |
|   4000 |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> select esal as "Salary Type", count(esal) as "Salary count",sum(esal) as " Sum of salary" from tbl_employee1 group by esal;
```

```
+-----+-----+-----+
| Salary Type | Salary count | Sum of salary |
+-----+-----+-----+
|   1000 |      2 |      2000 |
|   2000 |      1 |      2000 |
|   3000 |      1 |      3000 |
|   4000 |      1 |      4000 |
+-----+-----+-----+
4 rows in set, 1 warning (0.00 sec)
```

```
mysql> select esal as "Salary Type", count(esal) as "Salary count",sum(esal) as " Sum of salary"
from tbl_employee1 group by dno;
```

ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'day1_mysqlatabase.tbl_employee1.esal' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with

sql_mode=only_full_group_by

```
mysql> select esal as "Salary Type", count(esal) as "Salary count",sum(esal) as " Sum of salary"
from tbl_employee1
```

```
-> group by dno;
```


ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'day1_mysqlatabase.tbl_employee1.esal' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by

```
mysql> select sum(dno) from tbl_employee1;
```

```
+-----+
| sum(dno) |
+-----+
|      80 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select avg(esal) from tbl_employee1;
```

```
+-----+
| avg(esal) |
+-----+
| 2200.0000 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select avg(esal) from tbl_employee1 group by dno;
```

```
+-----+
| avg(esal) |
+-----+
| 2500.0000 |
| 2000.0000 |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> select dno, avg(esal) from tbl_employee1 group by dno;
```

```
+-----+-----+
| dno | avg(esal) |
+-----+-----+
|  10 | 2500.0000 |
|  20 | 2000.0000 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select avg(dno) from tbl_employee1;
```

```
+-----+
| avg(dno) |
+-----+
| 16.0000 |
+-----+
1 row in set (0.00 sec)
```

mysql> select count(dno) from tbl_employee1;

```
+-----+
| count(dno) |
+-----+
|      5 |
+-----+
1 row in set (0.00 sec)
```

mysql> select sum(dno) from tbl_employee1;

```
+-----+
| sum(dno) |
+-----+
|    80 |
+-----+
1 row in set (0.00 sec)
```

mysql> select min(esal) from tbl_employee1;

```
+-----+
| min(esal) |
+-----+
|    1000 |
+-----+
1 row in set (0.01 sec)
```

mysql> select min(dno) from tbl_employee1;

```
+-----+
| min(dno) |
+-----+
|    10 |
+-----+
1 row in set (0.00 sec)
```

mysql> select min(eid) from tbl_employee1;

```

+-----+
| min(eid) |
+-----+
|    101 |
+-----+
1 row in set (0.00 sec)

```

mysql> select min(ename) from tbl_employee1;

```

+-----+
| min(ename) |
+-----+
| Devi      |
+-----+
1 row in set (0.00 sec)

```

mysql> select count(ename) from tbl_employee1;

```

+-----+
| count(ename) |
+-----+
|          5 |
+-----+
1 row in set (0.00 sec)

```

mysql> select sum(ename) from tbl_employee1;

```

+-----+
| sum(ename) |
+-----+
|          0 |
+-----+
1 row in set, 5 warnings (0.00 sec)

```

mysql> select avg(ename) from tbl_employee1;

```

+-----+
| avg(ename) |
+-----+
|          0 |
+-----+
1 row in set, 5 warnings (0.00 sec)

```

mysql> select max(esal) as "Maximum of Salary" from tbl_employee1;

```

+-----+
| Maximum of Salary |
+-----+
|          4000 |
+-----+
1 row in set (0.00 sec)

```

mysql> select count(dno) as "No.of.department" , min(esal) as "Minimum Salary", max(esal) as "Maximum Salary" from tbl_employee1 group by dno;
 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 'by dno' at line 1

mysql> select count(dno) as "No.of.department" , min(esal) as "Minimum Salary", max(esal) as "Maximum Salary" from tbl_employee1 group by dno;

```

+-----+-----+-----+
| No.of.department | Minimum Salary | Maximum Salary |
+-----+-----+-----+
|          2 |          1000 |          4000 |
|          3 |          1000 |          3000 |
+-----+-----+-----+
2 rows in set (0.00 sec)

```

mysql> select dno as "Department Number",count(dno) as "No.of.department" , min(esal) as "Minimum Salary", max(esal) as "Maximum Salary" from tbl_employee1 group by dno;

```

+-----+-----+-----+-----+
| Department Number | No.of.department | Minimum Salary | Maximum Salary |
+-----+-----+-----+-----+
|          10 |          2 |          1000 |          4000 |
|          20 |          3 |          1000 |          3000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

mysql> select dno as "Department Number",count(dno) as "No.of.department" , min(esal) as "Minimum Salary", max(esal) as "Maximum Salary", sum(esal) as "Sum", avg(esal) as "Average Salary" from tbl_employee1 group by dno;

```

+-----+-----+-----+-----+-----+-----+
| Department Number | No.of.department | Minimum Salary | Maximum Salary | Sum | Average Salary |
+-----+-----+-----+-----+-----+-----+

```

	10		2		1000		4000		5000		2500.0000	
	20		3		1000		3000		6000		2000.0000	
+	-----	+	-----	+	-----	+	-----	+	-----	+	-----	+

2 rows in set (0.00 sec)

mysql>