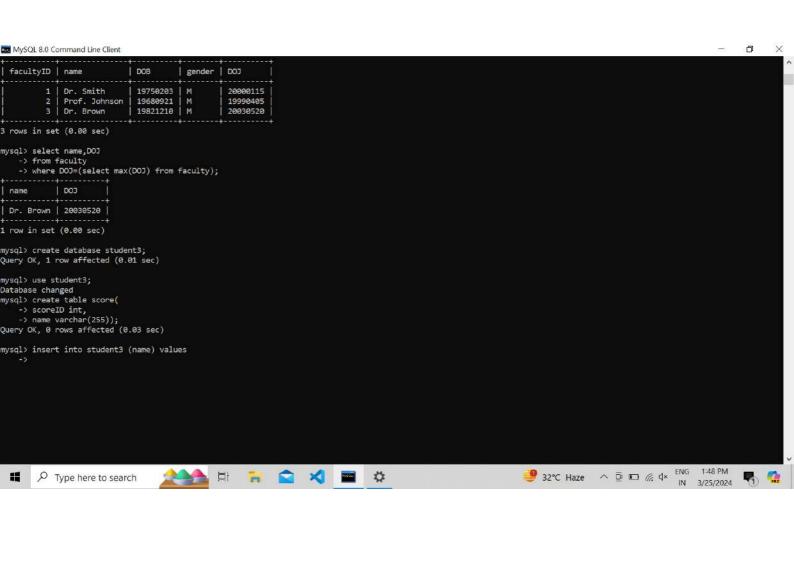```
Your MySQL connection id is 37
Server version: 8.0.36 MySQL Community Server - GPL

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owners.

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

mysql> create database balu;
ERROR 1007 (HY000): Can't create database 'balu'; database exists
mysql> use balu;
Database changed
mysql> delimiter //
mysql> create procedure dorepeat(p1 int)
    -> begin
    -> set @x=0;
    -> repeat set @x=@x+1;
    -> until @x>p1 end repeat;
    -> end
    -> //
Query OK, 0 rows affected (0.03 sec)

mysql> call dorepeat(4001)//
Query OK, 0 rows affected (0.03 sec)

mysql> select @x;
    -> //
+------+
| @x |
+------+
| 4002 |
+------+
1 row in set (0.00 sec)

mysql>
```

```
    ->     END CASE;
    ->
    ->     RETURN incomelevel;
    ->
    -> END; //
ERROR 1418 (HY000): This function has none of DETERMINISTIC, NO SQL, or READS SQL DATA in its declaration and binary logging is enabled (you *might* want to use the less sa
fe log_bin_trust_function_creators variable)
mysql>
mysql> SELECT incomelevel(5300);//
ERROR 1305 (42000): FUNCTION bala.incomelevel does not exist
mysql> create procedure test_mysql_while_loop()
    -> begin
    -> declare x int;
    -> declare str varchar(255);
    ->
    -> set x=1;
    -> set str='';
    ->
    -> while x<=5 do
    -> set str=concat(str,x,',');
    -> set x=x+1;
    -> end while;
    ->
    -> select str;
    -> end
    -> //
Query OK, 0 rows affected (0.01 sec)

mysql> call test_mysql_while_loop() //
+------------+
| str        |
+------------+
| 1,2,3,4,5, |
+------------+
1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

mysql>
```

```
MySQL 8.0 Command Line Client                                                                    —    □    ×

+-----------+---------------+----------+--------+----------+
| facultyID | name          | DOB      | gender | DOJ      |
+-----------+---------------+----------+--------+----------+
|         1 | Dr. Smith     | 19750203 | M      | 20000115 |
|         2 | Prof. Johnson | 19680921 | M      | 19990405 |
|         3 | Dr. Brown     | 19821210 | M      | 20030520 |
+-----------+---------------+----------+--------+----------+
3 rows in set (0.00 sec)

mysql> select name,DOJ
    -> from faculty
    -> where DOJ=(select max(DOJ) from faculty);
+-----------+----------+
| name      | DOJ      |
+-----------+----------+
| Dr. Brown | 20030520 |
+-----------+----------+
1 row in set (0.00 sec)

mysql> create database student3;
Query OK, 1 row affected (0.01 sec)

mysql> use student3;
Database changed
mysql> create table score(
    -> scoreID int,
    -> name varchar(255));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into student3 (name) values
    ->
```

```
mysql> use faculty;
Database changed
mysql> create table faculty(
    -> facultyID int,
    -> name varchar(255),
    -> DOB int,
    -> gender char(1),
    -> DOJ int);
Query OK, 0 rows affected (0.03 sec)

mysql> select name,DOJ
    -> from faculty
    -> ;
Empty set (0.01 sec)

mysql> INSERT INTO faculty (facultyID, name, DOB, gender, DOJ) VALUES
    -> (1, 'Dr. Smith', 19750203, 'M', 20000115),
    -> (2, 'Prof. Johnson', 19680921, 'M', 19990405),
    -> (3, 'Dr. Brown', 19821210, 'M', 20030520);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> This code creates the faculty table with columns e
    -> select* from faculty;
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 'This code creates
 the faculty table with columns e
select* from faculty' at line 1
mysql> select* from faculty;
+-----------+---------------+----------+--------+----------+
| facultyID | name          | DOB      | gender | DOJ      |
+-----------+---------------+----------+--------+----------+
|         1 | Dr. Smith     | 19750203 | M      | 20000115 |
|         2 | Prof. Johnson | 19680921 | M      | 19990405 |
|         3 | Dr. Brown     | 19821210 | M      | 20030520 |
+-----------+---------------+----------+--------+----------+
3 rows in set (0.00 sec)

mysql> select name,DOJ
    -> from faculty
    -> where DOJ=(select max(DOJ) from faculty);
```

MySQL 8.0 Command Line Client

```
mysql> select courseID,coursename,count(*) as student2 registered
    -> from student2
    -> group by courseID,coursename;
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 'registered
from student2
group by courseID,coursename' at line 1
mysql> select courseID,coursename,count(*) as student2
    -> from student2
    -> group by courseID,coursename;
+----------+------------+----------+
| courseID | coursename | student2 |
+----------+------------+----------+
|      101 | Mathematics |        1 |
|      102 | Physics    |        1 |
|      103 | Biology    |        1 |
+----------+------------+----------+
3 rows in set (0.01 sec)

mysql> select regno,name,count(*) as course
    -> from student2
    -> group by regno,name;
+-------+---------------+--------+
| regno | name          | course |
+-------+---------------+--------+
|     1 | John Doe      |      1 |
|     2 | Jane Smith    |      1 |
|     3 | Alice Johnson |      1 |
+-------+---------------+--------+
3 rows in set (0.00 sec)

mysql> select name,gender,mobileno
    -> from student2
    -> order by regno ASC;
+---------------+--------+------------+
| name          | gender | mobileno   |
+---------------+--------+------------+
| John Doe      | Male   | 1234567890 |
| Jane Smith    | Female | 9876543210 |
| Alice Johnson | Female | 5556667777 |
+---------------+--------+------------+
```

```
mysql> create database students;
Query OK, 1 row affected (0.01 sec)

mysql> use students;
Database changed
mysql> create table students(
    -> stdID int,
    -> name varchar(255),
    -> score float,
    -> assessment varchar(255));
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO students (stdID, name, score, assessment) VALUES
    -> (1, 'John Doe', 85.5, 'Midterm'),
    -> (2, 'Jane Smith', 78.9, 'Midterm'),
    -> (3, 'Alice Johnson', 92.0, 'Midterm');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select* from students;
+-------+---------------+-------+------------+
| stdID | name          | score | assessment |
+-------+---------------+-------+------------+
|     1 | John Doe      |  85.5 | Midterm    |
|     2 | Jane Smith    |  78.9 | Midterm    |
|     3 | Alice Johnson |    92 | Midterm    |
+-------+---------------+-------+------------+
3 rows in set (0.00 sec)

mysql> select name,score
    -> from students
    -> where score>(select avg(score) from students);
+---------------+-------+
| name          | score |
+---------------+-------+
| John Doe      |  85.5 |
| Alice Johnson |    92 |
+---------------+-------+
2 rows in set (0.01 sec)
```

```
mysql> use student;
Database changed
mysql> create table student2(
    -> regno int,
    -> name varchar(50),
    -> gender varchar(50),
    -> mobileno varchar(50),
    -> courseID int,
    -> coursename varchar(50),
    -> facultyname varchar(50),
    -> facultyage int);
Query OK, 0 rows affected (0.27 sec)

mysql> INSERT INTO student2 (regno, name, gender, mobileno, courseID, coursename, facultyname, facultyage) VALUES
    -> (1, 'John Doe', 'Male', '1234567890', 101, 'Mathematics', 'Dr. Smith', 40),
    -> (2, 'Jane Smith', 'Female', '9876543210', 102, 'Physics', 'Prof. Johnson', 45),
    -> (3, 'Alice Johnson', 'Female', '5556667777', 103, 'Biology', 'Dr. Brown', 38);
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select* from student2;
+-------+---------------+--------+------------+----------+-------------+---------------+------------+
| regno | name          | gender | mobileno   | courseID | coursename  | facultyname   | facultyage |
+-------+---------------+--------+------------+----------+-------------+---------------+------------+
|     1 | John Doe      | Male   | 1234567890 |      101 | Mathematics | Dr. Smith     |         40 |
|     2 | Jane Smith    | Female | 9876543210 |      102 | Physics     | Prof. Johnson |         45 |
|     3 | Alice Johnson | Female | 5556667777 |      103 | Biology     | Dr. Brown     |         38 |
+-------+---------------+--------+------------+----------+-------------+---------------+------------+
```

Type here to search   32°C Haze   ENG IN   1:47 PM 3/25/2024