Employee Name : - PravinKumar RajaSahayam
Employee Id : - 11946
MYSQL

LAB ACTIVITY - 2

1. Write a SQL statement to insert a record with your own value into the table countries against each columns.

Here in the following is the structure of the table countries.

```
+--------------+---------------+------+-----+---------+-------+
| Field        | Type          | Null | Key | Default | Extra |
+--------------+---------------+------+-----+---------+-------+
| COUNTRY_ID   | varchar(2)    | YES  |     | NULL    |       |
| COUNTRY_NAME | varchar(40)   | YES  |     | NULL    |       |
| REGION_ID    | decimal(10,0) | YES  |     | NULL    |       |
+--------------+---------------+------+-----+---------+-------+
```

```
mysql> desc tbl_countries
    -> ;
+--------------+---------------+------+-----+---------+-------+
| Field        | Type          | Null | Key | Default | Extra |
+--------------+---------------+------+-----+---------+-------+
| country_id   | varchar(2)    | YES  |     | NULL    |       |
| country_name | varchar(40)   | YES  |     | NULL    |       |
| region_id    | decimal(10,0) | YES  |     | NULL    |       |
+--------------+---------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> insert into tbl_countries values (101,'Pravins',1000);
ERROR 1406 (22001): Data too long for column 'country_id' at row 1
mysql> insert into tbl_countries values (10,'Pravins',1000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_countries values (20,'Pravins',2000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_countries values (30,'Pravins',30003);
Query OK, 1 row affected (0.00 sec)

mysql> select * from tbl_countries;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
| 10         | Pravins      |      1000 |
| 20         | Pravins      |      2000 |
| 30         | Pravins      |     30003 |
+------------+--------------+-----------+
3 rows in set (0.00 sec)
```

2. Write a SQL statement to insert one row into the table countries against the column country_id and country_name.

Here in the following is the structure of the table countries.

```
+--------------+---------------+------+-----+---------+-------+
| Field        | Type          | Null | Key | Default | Extra |
+--------------+---------------+------+-----+---------+-------+
| COUNTRY_ID   | varchar(2)    | YES  |     | NULL    |       |
| COUNTRY_NAME | varchar(40)   | YES  |     | NULL    |       |
| REGION_ID    | decimal(10,0) | YES  |     | NULL    |       |
+--------------+---------------+------+-----+---------+-------+
```

```
mysql> insert into tbl_countries (country_id,country_name) values ('C1','India');
Query OK, 1 row affected (0.00 sec)

mysql> select * from tbl_countries;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
| 10         | Pravins      |      1000 |
| 20         | Pravins      |      2000 |
| 30         | Pravins      |     30003 |
| C1         | India        |      NULL |
+------------+--------------+-----------+
4 rows in set (0.00 sec)
```

3. Write a SQL statement to create duplicate of countries table named country_new with all structure and data.

Here in the following is the structure of the table countries.

```
+--------------+---------------+------+-----+---------+-------+
| Field        | Type          | Null | Key | Default | Extra |
+--------------+---------------+------+-----+---------+-------+
| COUNTRY_ID   | varchar(2)    | YES  |     | NULL    |       |
| COUNTRY_NAME | varchar(40)   | YES  |     | NULL    |       |
| REGION_ID    | decimal(10,0) | YES  |     | NULL    |       |
+--------------+---------------+------+-----+---------+-------+
```

```
mysql> create table if not exists country_new as select * from countries;
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> show tables;
+----------------------+
| Tables_in_mysqlday4 |
+----------------------+

| country_new          |
| departments          |
| employees            |
| myview               |
| tbl_agents           |
| tbl_countries        |
| tbl_customers        |
| tbl_departments      |
| tbl_employee1        |
+----------------------+
10 rows in set (0.00 sec)
```

```
mysql> insert into country_new values (10,'Pravins',1000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into  country_new values (20,'Pravins',2000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into country_new values (30,'Pravins',30003);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from country_new;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
|         10 | Pravins      |      1000 |
|         20 | Pravins      |      2000 |
|         30 | Pravins      |     30003 |
|          1 | India        |      NULL |
+------------+--------------+-----------+
```

4. Write a SQL statement to insert NULL values against region_id column for a row of countries table.

```
mysql> INSERT INTO countries (country_id,country_name,region_id) VALUES(5,'India',NULL);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>  INSERT INTO countries (country_id,country_name,region_id) VALUES(10,'Pravins',NULL);
Query OK, 1 row affected (0.00 sec)

mysql>  INSERT INTO countries (country_id,country_name,region_id) VALUES(20,'Pravins',NULL);
Query OK, 1 row affected (0.00 sec)

mysql>  INSERT INTO countries (country_id,country_name,region_id) VALUES(30,'Pravins',NULL);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from countries;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
|          5 | India        |      NULL |
|         10 | Pravins      |      NULL |
|         20 | Pravins      |      NULL |
|         30 | Pravins      |      NULL |
+------------+--------------+-----------+
4 rows in set (0.00 sec)
```

5. Write a SQL statement to insert 3 rows by a single insert statement.

```
mysql> insert into countries values (40,'Pravins',100),(50,'Pravins',200),(41,'Pravins',300);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from countries;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
|          5 | India        |      NULL |
|         10 | Pravins      |      NULL |
|         20 | Pravins      |      NULL |
|         30 | Pravins      |      NULL |
|         40 | Pravins      |       100 |
|         41 | Pravins      |       300 |
|         50 | Pravins      |       200 |
+------------+--------------+-----------+
7 rows in set (0.00 sec)
```

6. Write a SQL statement insert rows from country_new table to countries table.

Here is the rows for country_new table. Assume that, the countries table is empty.

```
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
| C0001      | India        |      1001 |
| C0002      | USA          |      1007 |
| C0003      | UK           |      1003 |
+------------+--------------+-----------+
```

```
mysql> create table tbl_country_new (
    -> country_id varchar(5) NULL,
    -> country_name varchar(40) NULL,
    -> region_id decimal(10,0) Null
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> select * from tbl_country_new;
Empty set (0.00 sec)

mysql> insert into tbl_country_new values ('C0001','India',1001);
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_country_new values ('C0002','USA',1007);
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_country_new values ('C0003','UK',1003);
Query OK, 1 row affected (0.00 sec)

mysql> select * from tbl_country_new;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
| C0001      | India        |      1001 |
| C0002      | USA          |      1007 |
| C0003      | UK           |      1003 |
+------------+--------------+-----------+
3 rows in set (0.00 sec)
```

```
mysql> create table tbl_countriese (
    -> country_id varchar(5) NULL,
    -> country_name varchar(40) NULL,
    -> region_id decimal(10,0) Null
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> select * from tbl_countriese;
Empty set (0.00 sec)
```

```
mysql> insert into tbl_countriese (country_id,country_name,region_id) select country_id,country_name,region_id from tbl_country_new;
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from tbl_countriese;
+------------+--------------+-----------+
| country_id | country_name | region_id |
+------------+--------------+-----------+
| C0001      | India        |      1001 |
| C0002      | USA          |      1007 |
| C0003      | UK           |      1003 |
+------------+--------------+-----------+
3 rows in set (0.00 sec)
```

7. Write a SQL statement to insert one row in jobs table to ensure that no duplicate value will be entered in the job_id column.

```
mysql> CREATE TABLE tbl_jobs (
    -> JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
    -> JOB_TITLE varchar(35) NOT NULL,
    -> MIN_SALARY decimal(6,0)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> insert into tbl_jobs values(101,'JAVA',10000);
Query OK, 1 row affected (0.01 sec)

mysql> select * from tbl_jobs;
+--------+-----------+------------+
| JOB_ID | JOB_TITLE | MIN_SALARY |
+--------+-----------+------------+
|    101 | JAVA      |      10000 |
+--------+-----------+------------+
1 row in set (0.00 sec)

mysql> insert into tbl_jobs values(101,'Javas',30000);
ERROR 1062 (23000): Duplicate entry '101' for key 'tbl_jobs.PRIMARY'
```

8. Write a SQL statement to insert one row in jobs table to ensure that no duplicate value will be entered in the job_id column.

```
mysql> CREATE TABLE tbl_jobs (
    -> JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
    -> JOB_TITLE varchar(35) NOT NULL,
    -> MIN_SALARY decimal(6,0)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> insert into tbl_jobs values(101,'JAVA',10000);
Query OK, 1 row affected (0.01 sec)

mysql> select * from tbl_jobs;
+--------+-----------+------------+
| JOB_ID | JOB_TITLE | MIN_SALARY |
+--------+-----------+------------+
|    101 | JAVA      |      10000 |
+--------+-----------+------------+
1 row in set (0.00 sec)

mysql> insert into tbl_jobs values(101,'Javas',30000);
ERROR 1062 (23000): Duplicate entry '101' for key 'tbl_jobs.PRIMARY'
```

9. Write a SQL statement to insert a record into the table countries to ensure that, a country_id and region_id combination will be entered once in the table.

```
mysql> CREATE TABLE IF NOT EXISTS tbl_countriesa (
    -> COUNTRY_ID integer NOT NULL,
    -> COUNTRY_NAME varchar(40) NOT NULL,
    -> REGION_ID integer NOT NULL,
    -> PRIMARY KEY (COUNTRY_ID,REGION_ID)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into tbl_countriesa values (101,'India',109);
Query OK, 1 row affected (0.01 sec)

mysql> select * from tbl_countriesa;
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
|        101 | India        |       109 |
+------------+--------------+-----------+
1 row in set (0.00 sec)
```

```
mysql> insert into tbl_countriesa values ( 101 , 'Italys',109);
ERROR 1062 (23000): Duplicate entry '101-109' for key 'tbl_countriesa.PRIMARY'
```

10. Write a SQL statement to insert rows into the table countries in which the value of country_id column will be unique and auto incremented.

```
mysql> CREATE TABLE IF NOT EXISTS countriesz (
    -> COUNTRY_ID integer NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> COUNTRY_NAME varchar(40) NOT NULL,
    -> REGION_ID integer NOT NULL
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> desc  countriesz;
+--------------+-------------+------+-----+---------+----------------+
| Field        | Type        | Null | Key | Default | Extra          |
+--------------+-------------+------+-----+---------+----------------+
| COUNTRY_ID   | int         | NO   | PRI | NULL    | auto_increment |
| COUNTRY_NAME | varchar(40) | NO   |     | NULL    |                |
| REGION_ID    | int         | NO   |     | NULL    |                |
+--------------+-------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql> show tables;
+---------------------+
| Tables_in_mysqlday4 |
+---------------------+
| countries           |
| countriesz          |
| country_new         |
| departments         |
| employees           |
| myview              |
| tbl_agents          |
| tbl_countries       |
| tbl_countriesa      |
| tbl_countriese      |
| tbl_country_new     |
| tbl_customers       |
| tbl_departments     |
| tbl_employee1       |
| tbl_jobs            |
+---------------------+
```

```
mysql> insert into countriesz (country_name,region_id) values ('Surya',185);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from countriesz;
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
|          1 | Surya        |       185 |
+------------+--------------+-----------+
1 row in set (0.00 sec)

mysql> insert into countriesz (country_name,region_id) values ('PHONES',195);
Query OK, 1 row affected (0.00 sec)

mysql> select * from countriesz;
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
|          1 | Surya        |       185 |
|          2 | PHONES       |       195 |
+------------+--------------+-----------+
2 rows in set (0.00 sec)
```

11. Write a SQL statement to insert records into the table countries to ensure that the country_id column will not contain any duplicate data and this will be automatically incremented and the column country_name will be filled up by 'N/A' if no value assigned for that column.

```
mysql> CREATE TABLE IF NOT EXISTS country (
    -> COUNTRY_ID integer NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> COUNTRY_NAME varchar(40) NOT NULL DEFAULT 'N/A',
    -> REGION_ID integer NOT NULL
    -> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into country values(101,'Surya',100);
Query OK, 1 row affected (0.01 sec)

mysql> select * from country;
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
|        101 | Surya        |       100 |
+------------+--------------+-----------+
1 row in set (0.00 sec)

mysql> desc country;
+--------------+-------------+------+-----+---------+----------------+
| Field        | Type        | Null | Key | Default | Extra          |
+--------------+-------------+------+-----+---------+----------------+
| COUNTRY_ID   | int         | NO   | PRI | NULL    | auto_increment |
| COUNTRY_NAME | varchar(40) | NO   |     | N/A     |                |
| REGION_ID    | int         | NO   |     | NULL    |                |
+--------------+-------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql> insert into country (region_id) values (109);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from country;
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
|        101 | Surya        |       100 |
|        102 | N/A          |       109 |
+------------+--------------+-----------+
2 rows in set (0.00 sec)

mysql> insert into country (country_name,region_id) values ('huj',103);
Query OK, 1 row affected (0.01 sec)

mysql> select * from country;
+------------+--------------+-----------+
| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
+------------+--------------+-----------+
|        101 | Surya        |       100 |
|        102 | N/A          |       109 |
|        103 | huj          |       103 |
+------------+--------------+-----------+
3 rows in set (0.00 sec)
```

12. Write a SQL statement to insert rows in the job_history table in which one column job_id is containing those values which are exists in job_id column of jobs table.

```
mysql> CREATE TABLE IF NOT EXISTS jobs (
    -> JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
    -> JOB_TITLE varchar(35) NOT NULL DEFAULT ' ',
    -> MIN_SALARY decimal(6,0) DEFAULT 8000,
    -> MAX_SALARY decimal(6,0) DEFAULT 20000
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.03 sec)

mysql> insert into jobs(job_id,job_title) values (101111,'Google');
Query OK, 1 row affected (0.01 sec)

mysql> insert into jobs(job_id,job_title) values (102113,'Yahoo');
Query OK, 1 row affected (0.00 sec)

mysql> select * from jobs;
+--------+-----------+------------+------------+
| JOB_ID | JOB_TITLE | MIN_SALARY | MAX_SALARY |
+--------+-----------+------------+------------+
| 101111 | Google    |       8000 |      20000 |
| 102113 | Yahoo     |       8000 |      20000 |
+--------+-----------+------------+------------+
2 rows in set (0.00 sec)

mysql> CREATE TABLE job_history (
    -> EMPLOYEE_ID integer NOT NULL PRIMARY KEY,
    -> JOB_ID integer NOT NULL,
    -> DEPARTMENT_ID integer DEFAULT NULL,
    -> FOREIGN KEY (job_id) REFERENCES jobs(job_id)
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.02 sec)

mysql> insert into job_history values (501,101111,50);
Query OK, 1 row affected (0.01 sec)

mysql> select * from job_history;
+-------------+--------+---------------+
| EMPLOYEE_ID | JOB_ID | DEPARTMENT_ID |
+-------------+--------+---------------+
|         501 | 101111 |            50 |
+-------------+--------+---------------+
1 row in set (0.00 sec)

mysql> insert into job_history values (500,101114,59);)
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`mysqlday4`.`job_history`, CONSTRAINT `job_history_ibfk_1` FOREIGN KEY (`JOB_ID`)
REFERENCES `jobs` (`JOB_ID`))
```

13. Write a SQL statement to insert rows into the table employees in which a set of columns department_id and manager_id contains a unique value and that combined values must have exists into the table departments.

```
mysql>  CREATE TABLE IF NOT EXISTS departments (
    -> DEPARTMENT_ID integer NOT NULL UNIQUE,
    -> DEPARTMENT_NAME varchar(30) NOT NULL,
    ->  MANAGER_ID integer NOT NULL,
    -> LOCATION_ID integer DEFAULT NULL,
    -> PRIMARY KEY (DEPARTMENT_ID,MANAGER_ID)
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO departments VALUES(60,'SALES',201,89);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO departments VALUES(61,'ACCOUNTS',201,89);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO departments VALUES(80,'FINANCE',211,90);
Query OK, 1 row affected (0.00 sec)

mysql> select * from departments;
+---------------+-----------------+------------+-------------+
| DEPARTMENT_ID | DEPARTMENT_NAME | MANAGER_ID | LOCATION_ID |
+---------------+-----------------+------------+-------------+
|            60 | SALES           |        201 |          89 |
|            61 | ACCOUNTS        |        201 |          89 |
|            80 | FINANCE         |        211 |          90 |
+---------------+-----------------+------------+-------------+
3 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS employees (
    -> EMPLOYEE_ID integer NOT NULL PRIMARY KEY,
    -> FIRST_NAME varchar(20) DEFAULT NULL,
    -> LAST_NAME varchar(25) NOT NULL,
    -> JOB_ID varchar(10) NOT NULL,
    -> SALARY decimal(8,2) DEFAULT NULL,
    -> MANAGER_ID integer DEFAULT NULL,
    -> DEPARTMENT_ID integer DEFAULT NULL,
    -> FOREIGN KEY(DEPARTMENT_ID,MANAGER_ID)
    -> REFERENCES  departments(DEPARTMENT_ID,MANAGER_ID)
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

```
mysql> INSERT INTO employees VALUES(510,'Alex','Hanes','CLERK',18000,201,60);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO employees VALUES(511,'Kim','Leon','CLERK',18000,211,80);
Query OK, 1 row affected (0.00 sec)

mysql> select * from employees;
+-------------+------------+-----------+--------+----------+------------+---------------+
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | JOB_ID | SALARY   | MANAGER_ID | DEPARTMENT_ID |
+-------------+------------+-----------+--------+----------+------------+---------------+
|         510 | Alex       | Hanes     | CLERK  | 18000.00 |        201 |            60 |
|         511 | Kim        | Leon      | CLERK  | 18000.00 |        211 |            80 |
+-------------+------------+-----------+--------+----------+------------+---------------+
2 rows in set (0.00 sec)

mysql> INSERT INTO employees VALUES (555,'LIS','SALE','LAKERS',18000,321,60);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`aaa`.`employees`, CONSTRAINT `emp
loyees_ibfk_1` FOREIGN KEY (`DEPARTMENT_ID`, `MANAGER_ID`) REFERENCES `departments` (`DEPARTMENT_ID`, `MANAGER_ID`))
```

14. Write a SQL statement to insert rows into the table employees in which a set of columns department_id and job_id contains the values which must have exists into the table departments and jobs.

```
mysql> create table departments (
    -> department_id integer NOT NULL UNIQUE,
    -> department_name varchar(30) NOT NULL,
    -> manager_id integer default null,
    -> location_id integer default NULL,
    -> primary key (department_id))
    -> engine=InnoDB;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into departments values (10,'Sales',101,100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into departments values (50,'SaleManagers',102,103);
Query OK, 1 row affected (0.01 sec)

mysql> select * from departments;
+---------------+-----------------+------------+-------------+
| department_id | department_name | manager_id | location_id |
+---------------+-----------------+------------+-------------+
|            10 | Sales           |        101 |         100 |
|            50 | SaleManagers    |        102 |         103 |
+---------------+-----------------+------------+-------------+
2 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS jobs (
    -> JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
    -> JOB_TITLE varchar(35) NOT NULL DEFAULT ' ',
    -> MIN_SALARY decimal(6,0) DEFAULT 8000,
    -> MAX_SALARY decimal(6,0) DEFAULT 20000
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> insert into jobs(job_id,job_title) values (1001,'Sales');
Query OK, 1 row affected (0.01 sec)

mysql> insert into jobs(job_id,job_title) values (10041,'Saliesa');
Query OK, 1 row affected (0.00 sec)

mysql> select * from jobs;
+--------+-----------+------------+------------+
| job_id | job_title | min_salary | max_salary |
+--------+-----------+------------+------------+
|   1001 | Sales     |       NULL |       NULL |
|  10041 | Saliesa   |       NULL |       NULL |
+--------+-----------+------------+------------+
2 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS tbl_employees (
    -> EMPLOYEE_ID integer NOT NULL PRIMARY KEY,
    -> FIRST_NAME varchar(20) DEFAULT NULL,
    -> LAST_NAME varchar(25) NOT NULL,
    -> DEPARTMENT_ID integer DEFAULT NULL,
    -> FOREIGN KEY(DEPARTMENT_ID)
    -> REFERENCES  departments(DEPARTMENT_ID),
    -> JOB_ID integer NOT NULL,
    ->  FOREIGN KEY(JOB_ID)
    -> REFERENCES  jobs(JOB_ID),
    ->  SALARY decimal(8,2) DEFAULT NULL
    ->  )ENGINE=InnoDB;
Query OK, 0 rows affected (0.03 sec)

mysql>  insert into tbl_employees values (1000,'Surya','Mohans',108,1000,18000);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`s`.`tbl_employees`, CONSTRAINT `tbl_employees_ibfk_1` FOREIGN KEY (`DEPARTMENT_ID
`) REFERENCES `departments` (`department_id`))
mysql> desc tbl_employees;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| EMPLOYEE_ID   | int         | NO   | PRI | NULL    |       |
| FIRST_NAME    | varchar(20) | YES  |     | NULL    |       |
| LAST_NAME     | varchar(25) | NO   |     | NULL    |       |
| DEPARTMENT_ID | int         | YES  | MUL | NULL    |       |
| JOB_ID        | int         | NO   | MUL | NULL    |       |
| SALARY        | decimal(8,2)| YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```