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CHN18CS005
S5C,03
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Question

Create and insert values for the following tables department and instructor(with constraints)

- a. Department table
Code(primary key)
Title
Dept_name(unique)
Dept_id
Salary(check –salary>2000)
- b. Instructor table
Name(not null)
Code
Id(default)

CODE

```
CREATE TABLE DEPARTMENT(  
    `code` INT PRIMARY KEY NOT NULL,  
    `dept_name` VARCHAR(30) UNIQUE NOT NULL,  
    `title` VARCHAR(30),  
    `dept_id` INT UNIQUE NOT NULL,  
    `salary` INT,  
    CHECK (`salary` > 2000 )  
);  
  
INSERT INTO DEPARTMENT(`code`, `dept_name`, `title`, `dept_id`, `salary`)  
VALUES (1, "Computer Science", "course1", 100, 20000),  
      (2, "Mechanical", "course2", 101, 25000);
```

```

CREATE TABLE INSTRUCTOR(
    `name` VARCHAR(50) NOT NULL,
    `code` INT NOT NULL,
    `id` INT PRIMARY KEY DEFAULT 1
);

INSERT INTO INSTRUCTOR(`name`, `code`)
VALUES ("MSD", 7);
SELECT * FROM DEPARTMENT;
SELECT * FROM INSTRUCTOR;

```

Output

```

MySQL 8.0 Command Line Client
mysql> CREATE TABLE DEPARTMENT(
->   `code` INT PRIMARY KEY NOT NULL,
->   `dept_name` VARCHAR(30) UNIQUE NOT NULL,
->   `title` VARCHAR(30),
->   `dept_id` INT UNIQUE NOT NULL,
->   `salary` INT,
->   CHECK (`salary` > 2000 )
-> );
ERROR 1050 (42S01): Table 'department' already exists
mysql>
mysql> INSERT INTO DEPARTMENT(`code`, `dept_name`, `title`, `dept_id`, `salary`)
-> VALUES (1, "Computer Science", "course1", 100, 20000),
->         (2, "Mechanical", "course2", 101, 25000);
ERROR 1062 (23000): Duplicate entry '1' for key 'department.PRIMARY'
mysql>
mysql>
mysql> CREATE TABLE INSTRUCTOR(
->   `name` VARCHAR(50) NOT NULL,
->   `code` INT NOT NULL,
->   `id` INT PRIMARY KEY DEFAULT 1
-> );
Query OK, 0 rows affected (0.05 sec)

mysql>
mysql> INSERT INTO INSTRUCTOR(`name`, `code`)
-> VALUES ("MSD", 7);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM DEPARTMENT;
+----+-----+-----+-----+-----+
| code | dept_name | title | dept_id | salary |
+----+-----+-----+-----+-----+
| 1    | Computer Science | course1 | 100    | 20000 |
| 2    | Mechanical    | course2 | 101    | 25000 |
+----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT * FROM INSTRUCTOR;
+----+-----+-----+
| name | code | id |
+----+-----+-----+
| MSD  | 7    | 1 |
+----+-----+-----+
1 row in set (0.00 sec)

```