Lab 2: SQL practice Debarshi Dutta

Write SQL statements for the following tasks using MySQL: Create a database called lab2

CREATE DATABASE lab2

Create three tables as following in the database lab2

• Students, three columns: first_name, last_name, student_id. The first two column should be text; the last one is an integer. Use student_id as the primary key.

 Courses, two columns: course_title, course_id. They are both text. course_id should be the primary key.

the web)

Registration, three columns: student_id, a foreign key referencing student_id in the
Students table; course_id, a foreign key referencing course_id in the Courses table; status,
a text column that is meant to be 'registered', 'withdrawn', or 'pending permission', etc.
You do not need to implement the constraint for the status column. The primary key should
be the combination of the course id and the student id.

```
[mysql> CREATE TABLE Registration
                                                    [mysql> SHOW TABLES;
   -> (
                                                     | Tables_in_lab2 |
   -> student_id INT NOT NULL,
    -> Course_ID TEXT(10) NOT NULL,
                                                    Courses
    -> Status TEXT(40) NOT NULL,
                                                    | Registration
    -> PRIMARY KEY (student_id, Course_ID(10))
                                                    | Students
   -> );
Query OK, 0 rows affected (0.05 sec)
                                                   3 rows in set (0.01 sec)
[mysql> ALTER TABLE Registration ADD FOREIGN KEY (student_id) REFERENCES Students(student_id);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> ALTER TABLE Registration ADD FOREIGN KEY (Course ID(10)) REFERENCES
Courses(Course_ID);
(Note- Professor, kept getting the following error when I was putting the Foreign key
in the CREATE statement-
ERROR 1089 (HY000): Incorrect prefix key; the used key part isn't a string, the used
length is longer than the key part, or the storage engine doesn't support unique
prefix keys.
It went away when I defined them in the ALTER statement, after a bit of research on
```

Add 5 students in the Students table. Choose any names as you like.

Add 2 courses in the Courses table. Choose any names as you like.

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 Register some students with both courses; some with each of the two course; and some with no course.

• Find out the total number of students in each course. Be ready to do some other simple queries on this database.