**Lab 9**

Given are the tables of Teacher and Class:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TeacherID** | **Name** | **Office** | **Phone** | **Email** |
| T001 | Dr. Najma Waheed | F001 | 9125 | [najma@uni.edu.pk](mailto:najma@uni.edu.pk) |
| T002 | Dr. Nouman Masood | F003 | NULL | [nayyer@uni.edu.pk](mailto:nayyer@uni.edu.pk) |
| T003 | Dr. Farhana Khan | F002 | 9222 | [farhana@uni.edu.pk](mailto:farhana@uni.edu.pk) |
| T004 | Dr. Tayyaba Ali | F005 | 9325 | [tayyaba@uni.edu.pk](mailto:tayyaba@uni.edu.pk) |
| T005 | Mr. Nouman Ahmad | F006 | 9145 | [nouman@uni.edu.pk](mailto:nouman@uni.edu.pk) |
| T006 | Mr. Waqass Raheem | F004 | NULL | [waqas@uni.edu.pk](mailto:waqas@uni.edu.pk) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ClassID** | **CourseCode** | **DayofWeek** | **TimeStart** | **TimeEnd** | **Venue** | **TeacherID** |
| A001 | CS403 | Monday | 09:00 AM | 10:00 AM | A Block | T003 |
| B002 | CS301 | Tuesday | 09:00 AM | 10:00 AM | B Block | T005 |
| A001 | CS304 | Tuesday | 14:00 PM | 15:00 PM | A Block | T002 |
| C003 | CS201 | Monday | 10:30 AM | 12:00 PM | C Block | T006 |
| C003 | CS301 | Friday | 12:00 PM | 13:00 PM | C Block | T005 |
| B005 | CS403 | Friday | 12:30 PM | 14:00 PM | B Block | T003 |

Consider the above given tables and perform the following Tasks;

1. Display all the records of the class whose start time is between 09:00 and 12:00
2. Retrieve the details of teachers with first name Dr.
3. On which days classes of CS403 are scheduled at 09:00 AM?
4. List down the Subjects which are taught in B Block.
5. Select the course code from Class table, avoiding the duplicate values.
6. Display all the records of the class whose start time is 09:00 or 12:00 and end time is less than 14:00

**Solution:**

**1:**

Select \*

From Classes

Where StartTime Between '09:00' and '12:00'

**2:**

Select \* from Teacher

Where Name Like 'Dr.%'

**3:**

Select DayofWeek

From Classes

Where CourseCode='CS403' AND StartTime='09:00'

**4:**

Select CourseCode

From Classes

Where Venue='B Block'

**5:**

Select distinct CourseCode

From Classes

**6:**

Select \*

From Classes

Where (StartTime='09:00' OR StartTime='12:00') AND EndTime<'14:00'