**Lab 12**

Given are the tables of Teacher and Classes created in Labs 8 and 9;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TeacherID** | **Name** | **Office** | **Phone** | **Salary** | **Email** |
| T001 | Dr. Najma Waheed | F001 | 9125 | 150000 | [najma@uni.edu.pk](mailto:najma@uni.edu.pk) |
| T002 | Dr. Nouman Masood | F003 | NULL | 175000 | [nouman@uni.edu.pk](mailto:nouman@uni.edu.pk) |
| T003 | Dr. Farhana Khan | F001 | 9222 | 125000 | [farhana@uni.edu.pk](mailto:farhana@uni.edu.pk) |
| T004 | Dr. Tayyaba Ali | F005 | 9325 | 130000 | [tayyaba@uni.edu.pk](mailto:tayyaba@uni.edu.pk) |
| T005 | Mr. Nouman Ahmad | F006 | 9145 | 95000 | [noumanA@uni.edu.pk](mailto:noumanA@uni.edu.pk) |
| T006 | Mr. Waqass Raheem | F003 | NULL | 100000 | [waqas@uni.edu.pk](mailto:waqas@uni.edu.pk) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ClassID** | **CourseCode** | **DayofWeek** | **StartTime** | **EndTime** | **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. Count the number of teachers
2. Count the unique courses from Classes table
3. List subject-wise classes according to earlier end time.
4. Calculate the average salary of the teachers sitting in same office with office not null.

**Solution:**

**1:**

Select count(\*) from Teacher

**2:**

Select count(distinct CourseCode) As All\_Courses

from Classes

**3:**

Select Min(EndTime) As Late\_Classes

from Classes

GROUP BY CourseCode

**4:**

Select AVG(Salary)

From Teacher

GROUP BY Office

Having Office IS NOT NULL