LAB 5 BOGDAN TATU

```
select COURSE.ID, COURSE.NAME, TEACHER.DEPARTMENT
   from TEACHER
   inner join COURSE
    on TEACHER.ID = COURSE.TEACHER ID
   where TEACHER.NAME = 'Joe' and TEACHER.SURNAME = 'Mayor';
* INNER JOINS - the course taught by the teacher is directly linked by the teacher
id
select STUDENT.*
   from STUDENT
   inner join SIGNUP
   on STUDENT.ID = SIGNUP.STUDENT ID
   inner join COURSE
   on SIGNUP.COURSE_ID = COURSE.ID
   where COURSE.NAME = 'Programming' and extract(year from SIGNUP.YEAR) between
'2015' and '2025';
* INNER JOINS - I only need students that are signed up to a course
select COURSE.*
   from COURSE
   inner join TEACHER
   on TEACHER.ID = COURSE.TEACHER ID
   inner join DEPARTMENT
   on TEACHER.DEPARTMENT = DEPARTMENT.ID
   where DEPARTMENT.FACULTY = 'AC';
* INNER JOINS - I only need courses that are taught by a teacher that belongs to a
department
select distinct COURSE.NAME, STUDENT.DEPARTMENT
   from COURSE
   inner join SIGNUP
   on SIGNUP.COURSE ID = COURSE.ID
   inner join STUDENT
   on STUDENT.ID = SIGNUP.STUDENT ID
   where STUDENT.NAME = 'Ioan' and STUDENT.SURNAME = 'Popescu';
* INNER JOINS - I only need courses that have the student signed up to them
```

```
select distinct STUDENT.*
    from STUDENT
   inner join SIGNUP
   on STUDENT.ID = SIGNUP.STUDENT_ID
   inner join COURSE
   on SIGNUP.COURSE ID = COURSE.ID
   inner join TEACHER
   on TEACHER.ID = COURSE.TEACHER_ID
   where TEACHER.NAME = 'Joe' and TEACHER.SURNAME = 'Mayor'
* INNER JOINS - I only need students that are signed up to a course, that course
taught by a specific teacher
select COURSE.NAME, SIGNUP.YEAR, GRADE.ELP, GRADE.VALUE
   from GRADE
   inner join STUDENT
   on STUDENT.ID = GRADE.STUDENT_ID
   inner join SIGNUP
   on SIGNUP.STUDENT_ID = STUDENT.ID
   inner join COURSE
   on SIGNUP.COURSE ID = COURSE.ID
   where STUDENT.NAME = 'Andrei' and STUDENT.SURNAME = 'Floraru';
* INNER JOINS - Grades of a student that is signed up to the courses that grade
belong to
select distinct STUDENT.NAME, STUDENT.SURNAME, COURSE.NAME, GRADE.VALUE
    from STUDENT
   left join SIGNUP
   on STUDENT.ID = SIGNUP.STUDENT_ID
   left join COURSE
   on SIGNUP.COURSE_ID = COURSE.ID
   left join GRADE
   on STUDENT.ID = GRADE.STUDENT ID
* LEFT JOINS - All students that are/are not signed up to a course. If signed up,
they may/may not have a grade for that course
select DEPARTMENT.NAME, STUDENT.NAME, STUDENT.SURNAME
   from DEPARTMENT
    right join STUDENT
    on STUDENT.DEPARTMENT = DEPARTMENT.ID
* RIGHT JOIN - Department of all students
```

```
select STUDENT.NAME, STUDENT.SURNAME, COURSE.NAME
    from STUDENT
    full join SIGNUP
    on STUDENT.ID = SIGNUP.STUDENT_ID
    full join COURSE
    on SIGNUP.COURSE_ID = COURSE.ID
```

 st FULL JOIN - Students that are/are not signed up to a course. Courses that may/may not belong to any student