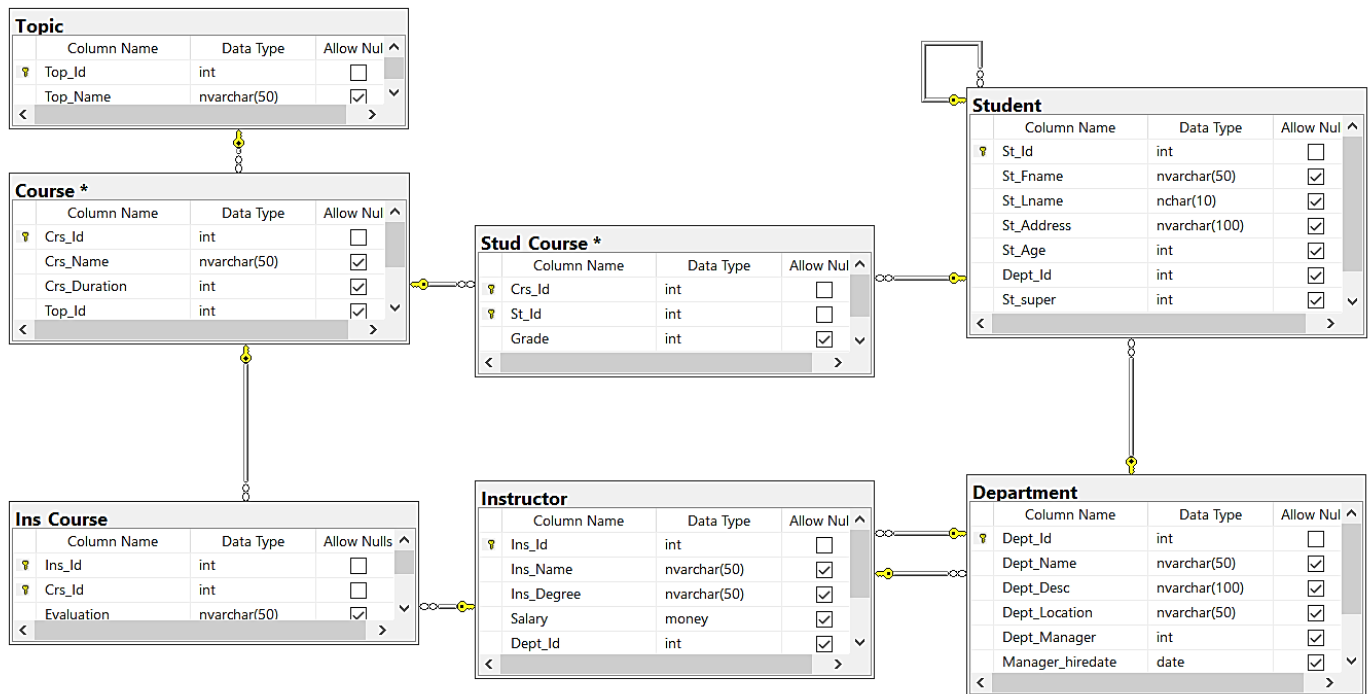


Database Project



- Create Database called **DEPI_DB**
- Use the above schema diagram to create the tables according the specific constraints and datatypes using (SQL code)
- Insert these values into the tables

| | Crs_Id | Crs_Name | Crs_Duration | Top_Id |
|---|--------|--------------|--------------|--------|
| 1 | 100 | HTML | 20 | 3 |
| 2 | 200 | C Progamming | 60 | 1 |
| 3 | 300 | OOP | 80 | 1 |
| 4 | 400 | Unix | 50 | 4 |
| 5 | 500 | SQL Server | 60 | 2 |

| | Dept_Id | Dept_Name | Dept_Desc | Dept_Location | Dept_Manager | Manager_hiredate |
|---|---------|-----------|--------------------|---------------|--------------|------------------|
| 1 | 10 | SD | System Development | Cairo | NULL | 2000-01-01 |
| 2 | 20 | EL | E-Learning | Mansoura | NULL | 2002-10-02 |
| 3 | 30 | Java | Java | Cairo | NULL | 2008-05-04 |
| 4 | 40 | MM | Multimedia | Alex | NULL | 2009-01-01 |
| 5 | 50 | Unix | Unix | Alex | NULL | NULL |
| 6 | 60 | NC | Network | Cairo | NULL | NULL |
| 7 | 70 | EB | E-Business | Alex | NULL | NULL |

| | Ins_Id | Ins_Name | Ins_Degree | Salary | Dept_Id |
|----|--------|----------|------------|--------|---------|
| 1 | 1 | Ahmed | Master | NULL | 10 |
| 2 | 2 | Hany | Master | NULL | 10 |
| 3 | 3 | Reham | Master | NULL | 10 |
| 4 | 4 | Yasmin | PHD | NULL | 10 |
| 5 | 5 | Amany | PHD | NULL | 10 |
| 6 | 6 | Eman | Master | NULL | 10 |
| 7 | 7 | Saly | NULL | NULL | 10 |
| 8 | 8 | Amr | NULL | NULL | 30 |
| 9 | 9 | Hussien | NULL | NULL | 50 |
| 10 | 10 | Khalid | NULL | NULL | 30 |
| 11 | 11 | Salah | NULL | NULL | 70 |

| | St_Id | St_Fname | St_Lname | St_Address | St_Age | Dept_Id | St_super |
|---|-------|----------|----------|------------|--------|---------|----------|
| 1 | 1 | Ahmed | Hassan | Cairo | 20 | 10 | NULL |
| 2 | 2 | Amr | Magdy | Cairo | 21 | 10 | 1 |
| 3 | 3 | Mona | Saleh | Cairo | 22 | 10 | 1 |
| 4 | 4 | Ahmed | Mohamed | Alex | 23 | 10 | 1 |
| 5 | 5 | Khalid | Moahmed | Alex | 24 | 10 | 1 |
| 6 | 6 | Heba | Farouk | Mansoura | 25 | 20 | NULL |
| 7 | 7 | Ali | Hussien | Cairo | 25 | 20 | 6 |
| 8 | 8 | Mohamed | Fars | Alex | 28 | 20 | 6 |

| | Ins_Id | Crs_Id | Evaluation |
|----|--------|--------|------------|
| 1 | 1 | 100 | Good |
| 2 | 1 | 200 | Good |
| 3 | 1 | 300 | Good |
| 4 | 2 | 400 | VGood |
| 5 | 2 | 500 | VGood |
| 6 | 3 | 100 | Distinct |
| 7 | 3 | 600 | VGood |
| 8 | 3 | 700 | Good |
| 9 | 4 | 200 | Good |
| 10 | 4 | 300 | Good |

| | Crs_Id | St_Id | Grade |
|----|--------|-------|-------|
| 1 | 100 | 1 | 100 |
| 2 | 100 | 2 | 90 |
| 3 | 100 | 3 | 80 |
| 4 | 100 | 4 | 70 |
| 5 | 100 | 5 | 100 |
| 6 | 100 | 6 | 90 |
| 7 | 200 | 1 | 90 |
| 8 | 200 | 2 | 90 |
| 9 | 200 | 3 | 80 |
| 10 | 200 | 4 | 80 |

| | Top_Id | Top_Name |
|---|--------|------------------|
| 1 | 1 | Programming |
| 2 | 2 | DB |
| 3 | 3 | Web |
| 4 | 4 | Operating System |
| 5 | 5 | Design |

- retrieve number of students who have a value in their age.
- Get all instructors Names without repetition
- Display student with the following Format

| Student ID | Student Full Name | Department name |
|------------|-------------------|-----------------|
| | | |

- Display instructor Name and Department Name
Note: display all the instructors if they are attached to a department or not
- Display student full name and the name of the course he is taking
For only courses which have a grade
- Display number of courses for each topic name
- Display max and min salary for instructors
- Display instructors who have salaries less than the average salary of all instructors.
- Display the Department name that contains the instructor who receives the minimum salary.
- Select max two salaries in instructor table.
- Select instructor name and his salary but if there is no salary display **NA** keyword instead. “use coalesce Function”
- Select Average Salary for instructors
- Select Student first name and the data of his supervisor
- Create Stored Procedure to retrieve number of students for specific department name. (**search to solve**)
- Create View that contains Student Name and his Courses that take (**search to solve**)