

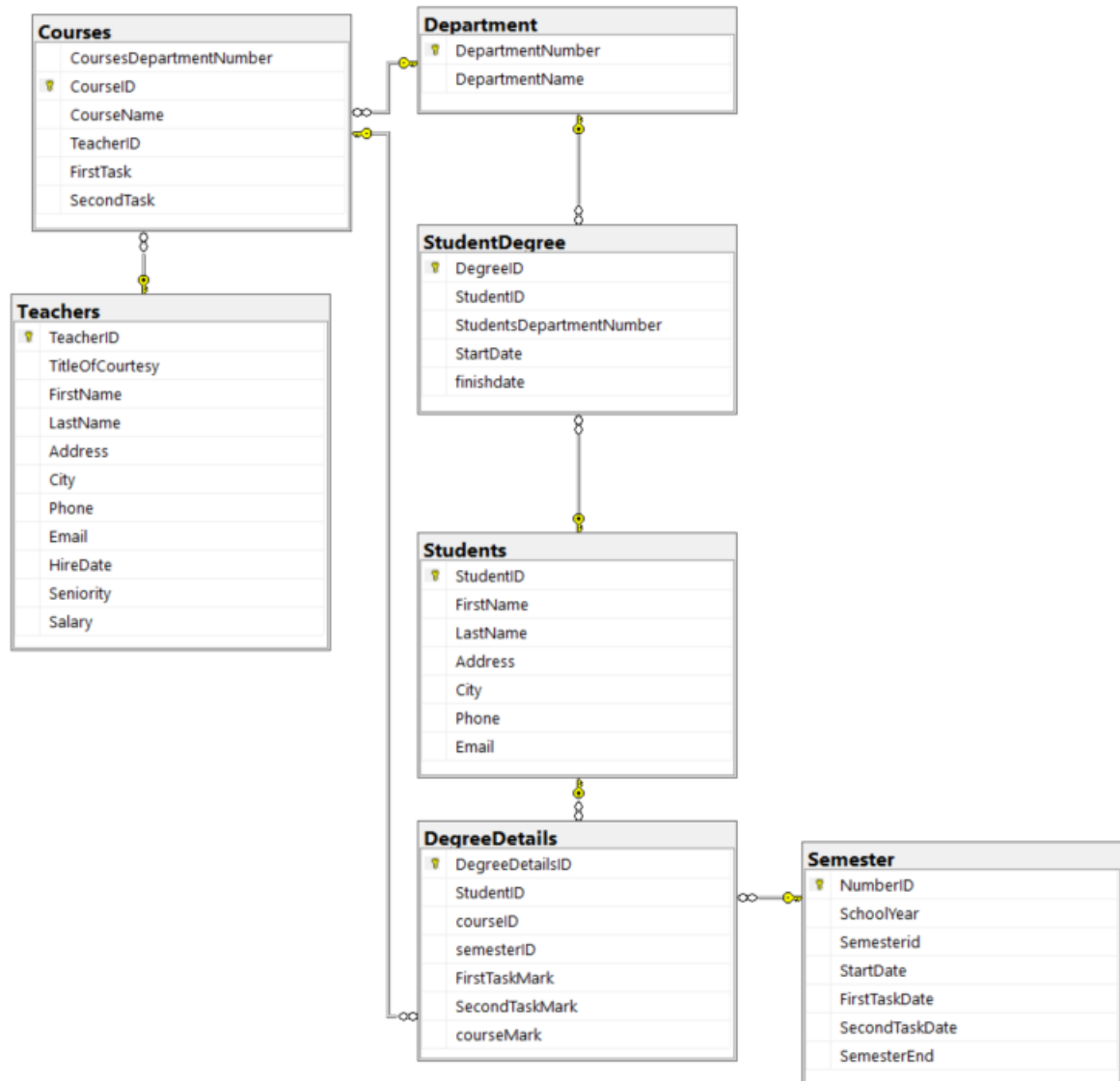
Table Design & Creation
Data Analyst Program - Project 1
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About This Project

This project will produce a database for an application which manages a training college named “Learning_To_Teach”. The data system is Microsoft SQL Server Management Studio 18 based. With the aid of the system the college administration will build a curriculum and monitor student achievement.

ERD

Please see below the ERD of “Learning_To_Teach” database:



Tables Description

1. Department – A list of all Departments

Column Name	Column Type	Constraint	Comments
DepartmentNumber	INT	Identity (1,1)	PK
DepartmentName	varchar(15)		

2. Teachers – A list of all the teachers and their personal details

Column Name	Column Type	Constraint	Comments
TeacherID	INT	Identity (1,1)	PK
TitleOfCourtesy	varchar(15)	Not null Check TitleOfCourtesy is Dr or professor	
FirstName	varchar(15)	Not null	
LastName	varchar(15)	Not null	
Address	varchar(35)		
City	varchar(15)		
Phone	varchar(12)	Not null, Unique, Check, phone like '____-_____'	
Email	varchar(50)		
HireDate	date	Not null	
Seniority	int		
salary	money		

3. Students – A list of all the students and their personal detail

Column Name	Column Type	Constraint	Comments
StudentID	INT	Identity (1,1)	PK
FirstName	varchar(15)	Not null	
LastName	varchar(15)	Not null, unique	
Address	varchar(35)		
City	varchar(15)		
Phone	varchar(12)	Not null, Unique, Check, phone like '____-_____'	
Email	varchar(50)		

4. Courses – the courses in each semester

Column Name	Column Type	Constraint	Comments
CoursesDepartmentNumber	int		FK from Department (DepartmentNumber)
CourseID	INT	Identity (1,1)	PK
CourseName	varchar(30)	Not null, unique	
TeacherID	INT		FK from teachers (TeacherID)
FirstTask	varchar(11)	Check SemesterType is	

		Test or Paperwork	
SecondTask	varchar(11)	Check SemesterType is Test or Paperwork	

5. Semester – the schedule of each semester

Column Name	Column Type	Constraint	Comments
NumberID	INT	Identity (1,1)	PK
SchoolYear	INT		
SemesterType	varchar(11)	Not null, unique Check SemesterType is Winter or Summer	
StartDate	Date	Not null	FK from teachers (TeacherID)
FirstTaskDate	Date		
SecondTaskDate	Date		
SemesterEnd	Date		

6. StudentDegree – the details of the degree of each student

Column Name	Column Type	Constraint	Comments
DegreeID	INT	Identity (1,1)	PK
StudentID	INT	Not null	FK from Students(StudentID)
StudentsDepartmentNumber	INT	Not null, unique	FK from Department(DepartmentNumber)
StartDate	Date	not null	
finishdate	Date	not null	

7. DegreeDetails – List of courses of each student and his/her achievements

Column Name	Column Type	Constraint	Comments
DegreeDetailsID	INT	Identity (1,1)	PK
StudentID	INT		FK from Students(StudentID)
courseID	INT		FK from courses (CourseID)
SemesterNumberID	INT		FK from Semester(NumberID)
FirstTaskMark	INT		
SecondTaskMark	INT		
courseMark	INT		

Script

The full script is sent in a separate file.