



**REPUBLIC OF TURKEY  
YILDIZ TECHNICAL UNIVERSITY  
CHEMICAL AND METALLURGICAL FACULTY  
DEPARTMENT OF MATHEMATICAL ENGINEERING**

## **SQL APPLICATIONS**

### **DATABASE PROJECT LIKE USIS**

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**DEADLINE:25.05.2020**

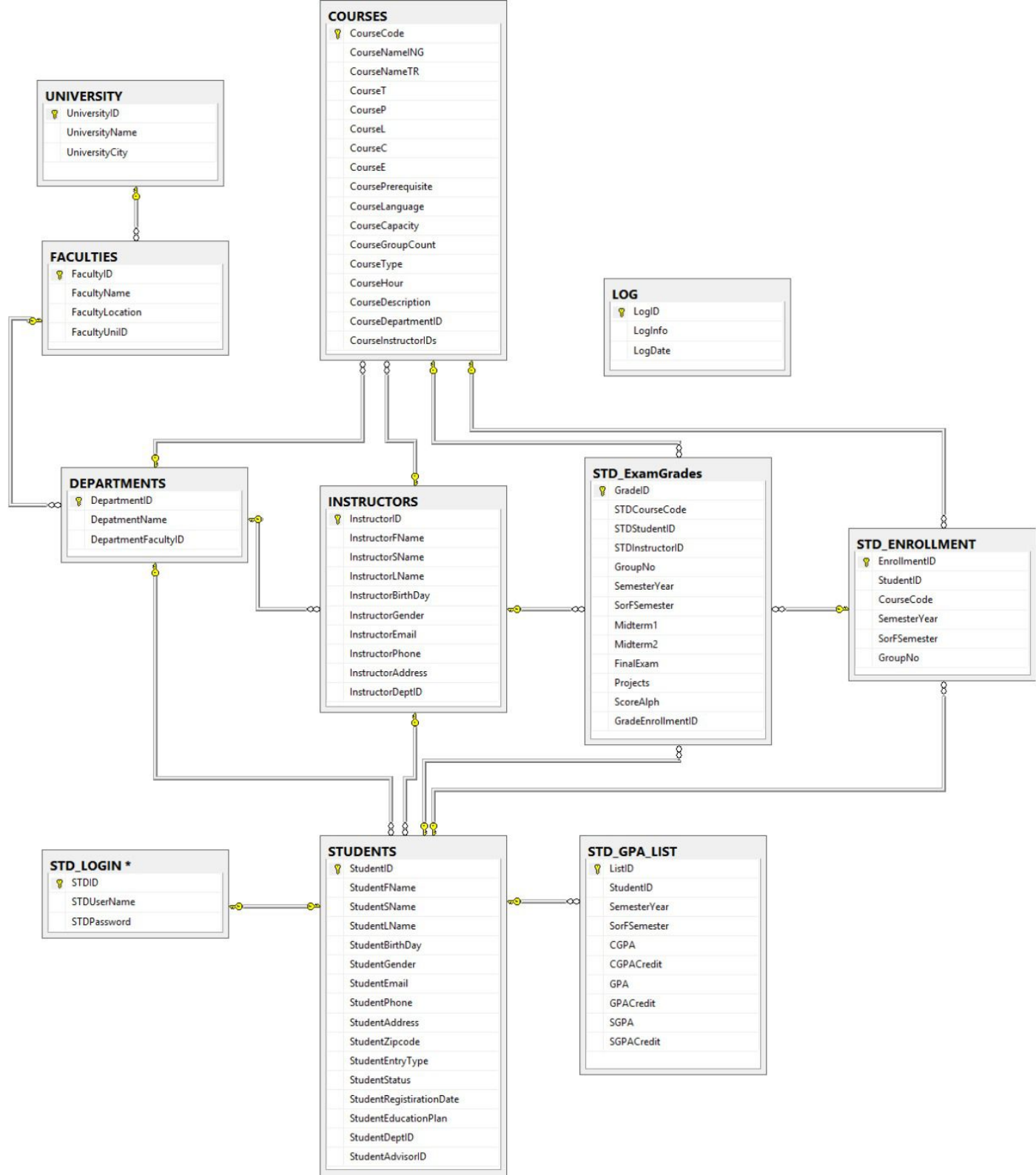
# **SCHOOL Database**

## **Project**

08.05.2020

Assignment: Prepare a simple School database project looks like “USIS”. Please use all topics in SQL that we learned during the semester. The due date is given on [onlinekampus2.yildiz.edu.tr](http://onlinekampus2.yildiz.edu.tr).

Prof. Dr. Aydın SEÇER

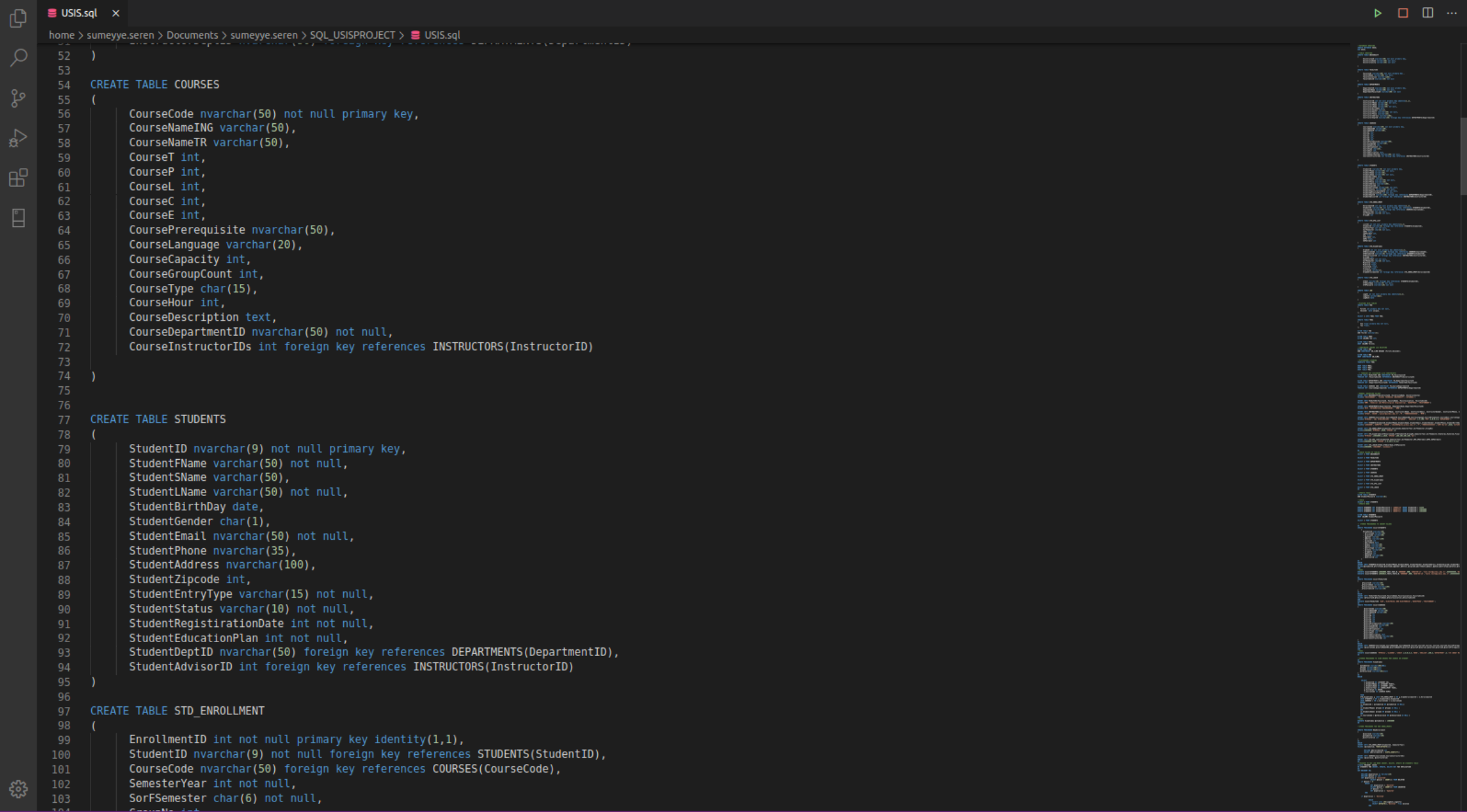


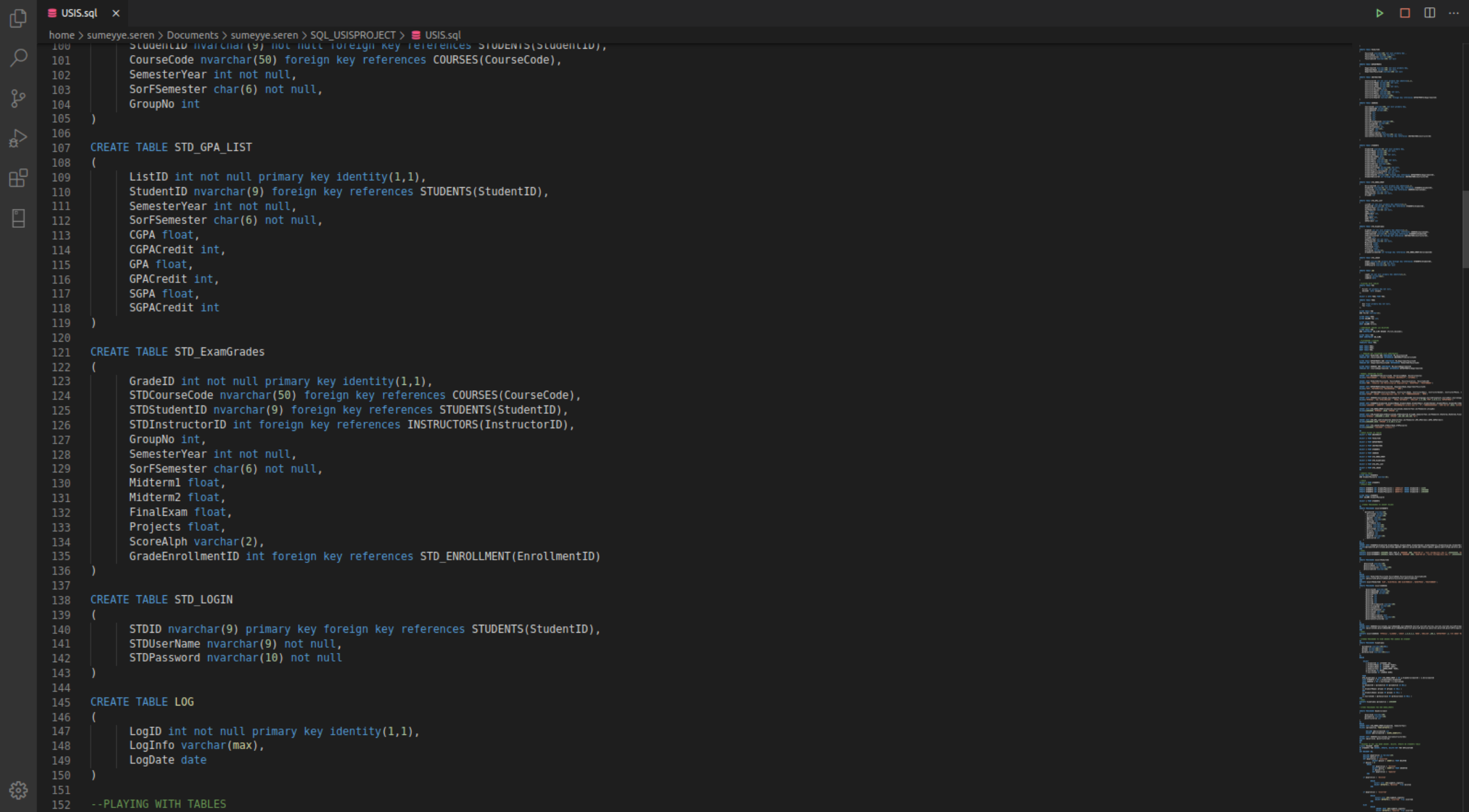
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```
1  --DATABASE CREATION EXAMPLES
2  CREATE DATABASE UsisCopy ON PRIMARY(NAME = 'UsisCopy_data', FILENAME = 'C:\PATH\OF\UsisCopy_data.mdf')
3  LOG ON(NAME = 'UsisCopy_log', FILENAME = 'C:\PATH\OF\LOGS\UsisCopy_log.ldf')
4
5  CREATE DATABASE UsisCopy
6  BACKUP DATABASE UsisCopy TO DISK = 'C:\WHERE\UsisCopy.bak'
7
8  DROP DATABASE UsisCopy
9
10 RESTORE DATABASE UsisCopy FROM DISK = 'C:\PATHs\UsisCopy.bak'
11
12 --DATABASE CREATING
13 CREATE DATABASE USIS;
14 USE USIS;
15
16 --TABLE CREATING
17 CREATE TABLE UNIVERSITY
18 (
19     UniversityID nvarchar(50) not null primary key,
20     UniversityName varchar(50) not null,
21     UniversityCity varchar(50) not null
22 )
23
24
25 CREATE TABLE FACULTIES
26 (
27     FacultyID nvarchar(50) not null primary key ,
28     FacultyName varchar(50) not null,
29     FacultyLocation nvarchar(100),
30     FacultyUniID nvarchar(50) not null
31 )
32
33 CREATE TABLE DEPARTMENTS
34 (
35     DepartmentID nvarchar(50) not null primary key,
36     DeapartmentName varchar(50) not null,
37     DepartmentFacultyID nvarchar(50) not null
38 )
39
40 CREATE TABLE INSTRUCTORS
41 (
42     InstructorID int not null primary key identity(1,1),
43     InstructorFName varchar(50) not null,
44     InstructorSName varchar(50),
45     InstructorLName varchar(50) not null,
46     InstructorBirthDay date,
47     InstructorGender char(1),
48     InstructorEmail nvarchar(50) not null,
49     InstructorPhone nvarchar(35),
50     InstructorAddress nvarchar(100),
51     InstructorDeptID nvarchar(50) foreign key references DEPARTMENTS(DepartmentID)
52 )
53
```

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151
152 --PLAYING WITH TABLES
153 CREATE TABLE F00
154 (
155     FirstC int primary key not null,
156     SecondC date unique,
157 );
158
159 SELECT * INTO F001 FROM F00;
160
161 CREATE TABLE F002
162 (
163     One float primary key not null,
164     Two float,
165 );
166
167 ALTER TABLE F00
168 ADD ThirdC nvarchar(3);
169
170 ALTER TABLE F002
171 ALTER COLUMN Two int;
172
173 ALTER TABLE F001
174 DROP COLUMN FirstC;
175
176 --CONSTRAINT ADDING and DELETING
177 ALTER TABLE F00
178 ADD CONSTRAINT UN_CLMN UNIQUE (FirstC,SecondC);
179
180 ALTER TABLE F00
181 DROP CONSTRAINT UN_CLMN;
182
183 --PLAYGROUND CLEANING
184 TRUNCATE TABLE F00;
185
186 DROP TABLE F001;
187 DROP TABLE F002;
188 DROP TABLE F00;
189
190 -- FOREIGN KEY ASSIGNING with CONSTRAINTS
191 ALTER TABLE FACULTIES ADD CONSTRAINT FK_FacultyuniID
192 FOREIGN KEY (FacultyUniID) REFERENCES UNIVERSITY(UniversityID)
193
194 ALTER TABLE DEPARTMENTS ADD CONSTRAINT FK_DepartmentFacultyID
195 FOREIGN KEY (DepartmentFacultyID) REFERENCES FACULTIES(FacultyID)
196
197 ALTER TABLE COURSES ADD CONSTRAINT FK_CourseDepartmentID
198 FOREIGN KEY (CourseDepartmentID) REFERENCES DEPARTMENTS(DepartmentID)
199
200
201 --MANUEL INSERTING VALUES
202 INSERT INTO UNIVERSITY(UniversityID, UniversityName, UniversityCity)
203 VALUES('TRISTANBU07', 'YILDIZ TECHNICAL UNIVERSITY','ISTANBUL')

```





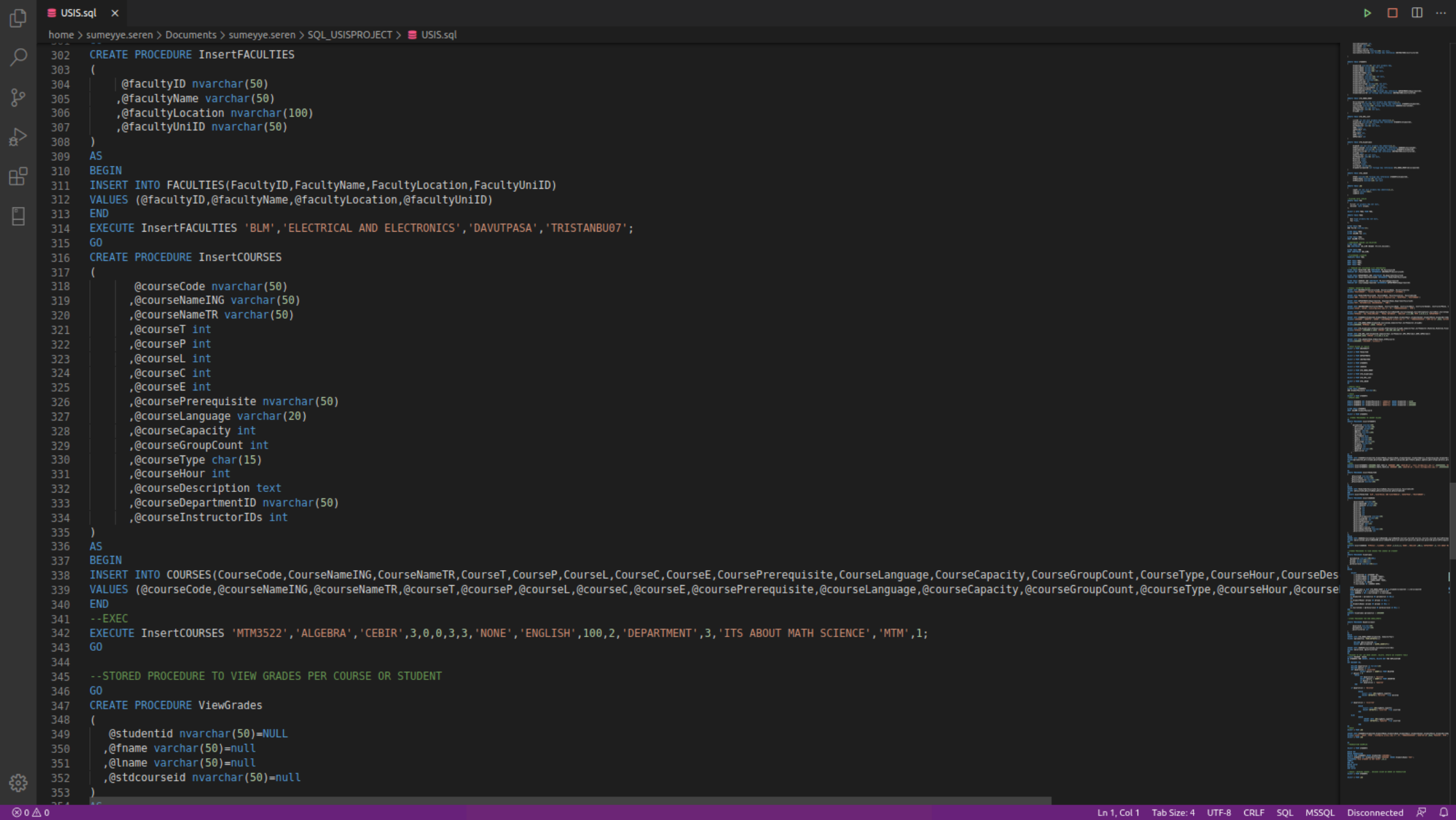


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```
254
255 --UPDATE TABLE
256 ALTER TABLE STUDENTS
257 ADD StudentPassword nvarchar(8);
258
259 --CHECK
260 SELECT * FROM STUDENTS
261 --UPDATE ROWS
262
263 UPDATE STUDENTS SET StudentPassword = 'JKD04*JS' WHERE StudentID = 12345
264 UPDATE STUDENTS SET StudentPassword = 'QWERTY2*' WHERE StudentID = 15058000
265 UPDATE STUDENTS SET StudentPassword = 'QWERTY1*' WHERE StudentID = 15058009
266
267 ALTER TABLE STUDENTS
268 DROP COLUMN StudentPassword
269
270 SELECT * FROM STUDENTS
271
272 -- STORED PROCEDURES TO INSERT VALUES
273 GO
274 CREATE PROCEDURE InsertSTUDENTS
275 (
276     @studentID nvarchar(50)
277     , @firstname varchar(50)
278     , @lastname varchar(50)
279     , @gender char(1)
280     , @Adress nvarchar(100)
281     , @zipcode int
282     , @birthdate date
283     , @email nvarchar(50)
284     , @phone nvarchar(35)
285     , @entryType varchar(15)
286     , @status varchar(10)
287     , @regdate int
288     , @eduplan int
289     , @deptID nvarchar(50)
290     , @advisorid int
291 )
292 AS
293 BEGIN
294 INSERT INTO STUDENTS(StudentID,StudentFName,StudentLName,StudentGender,StudentAddress,StudentZipcode,StudentBirthDay,StudentEmail,StudentPhone,StudentEntryType,StudentStatus,StudentRegistrationD
295 VALUES(@studentID,@firstname,@lastname,@gender,@Adress,@zipcode,@birthdate,@email,@phone,@entryType,@status,@regdate,@eduplan,@deptID,@advisorid)
296 END
297 --EXEC
298 EXECUTE InsertSTUDENTS 15058000,TEST,TEST,N,'UNKNOWN',000,'2020-05-17','test.test@yildiz.edu.tr',5555555555,'OSS','PASSIVE',2020,2018,'MTM',1;
299 EXECUTE InsertSTUDENTS 15058025,TEST2,TEST2,N,'UNKNOWN',000,'2020-05-18','test2.test2@yildiz.edu.tr',5555555555,'OSS','PASSIVE',2020,2018,'MTM',1;
300
301 GO
302 CREATE PROCEDURE InsertFACULTIES
303 (
304     @facultyID nvarchar(50)
305     ,@facultyName varchar(50)
306     ,@facultyLocation nvarchar(100)
```

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```

344
345 --STORED PROCEDURE TO VIEW GRADES PER COURSE OR STUDENT
346 GO
347 CREATE PROCEDURE ViewGrades
348 (
349     @studentid nvarchar(50)=NULL
350     ,@fname varchar(50)=null
351     ,@lname varchar(50)=null
352     ,@stdcourseid nvarchar(50)=null
353 )
354 AS
355 BEGIN
356
357     SELECT
358         s.StudentID AS [STUDENT ID],
359         s.StudentFName AS [STUDENT FIRST],
360         s.StudentLName AS [STUDENT LAST],
361         e.SemesterYear AS [ENROLLMENT YEAR],
362         g.ScoreAlph AS GRADE,
363         c.CourseCode AS [COURSE NAME]
364
365     FROM
366         STD_ExamGrades g JOIN STD_ENROLLMENT e ON g.GradeEnrollmentID = e.EnrollmentID
367         JOIN STUDENTS s ON s.StudentID=e.StudentID
368         JOIN COURSES c ON c.CourseCode = e.CourseCode
369     WHERE
370         (s.StudentID = @studentid OR @studentid IS NULL)
371         AND
372         (s.StudentFName= @fname OR @fname IS NULL )
373         AND
374         (s.StudentLName= @lname OR @lname IS NULL )
375         AND
376         (c.CourseCode = @stdcourseid OR @stdcourseid IS NULL )
377     END
378 --EXEC
379 EXECUTE ViewGrades @studentid = 15058009
380 GO
381
382 --STORE PROCEDURE FOR NEW ENROLLMENTS
383
384 CREATE PROCEDURE NewEnrollment
385 (
386     @courseid nvarchar(50)
387     ,@studentid nvarchar(50)
388     ,@instructorid int
389 )
390 AS
391 BEGIN
392     INSERT INTO STD_ENROLLMENT(StudentID, SemesterYear)
393     VALUES (@studentid, YEAR(GETDATE()))
394
395     DECLARE @EnrollmentID int
396     SELECT @EnrollmentID = SCOPE IDENTITY()

```



```

382 --STORE PROCEDURE FOR NEW ENROLLMENTS
383
384 CREATE PROCEDURE NewEnrollment
385 (
386     @courseid nvarchar(50)
387     ,@studentid nvarchar(50)
388     ,@instructorid int
389 )
390 AS
391 BEGIN
392     INSERT INTO STD_ENROLLMENT(StudentID, SemesterYear)
393     VALUES (@studentid, YEAR(GETDATE()))
394
395     DECLARE @EnrollmentID int
396     SELECT @EnrollmentID = SCOPE_IDENTITY()
397
398     INSERT INTO COURSES(CourseCode,CourseInstructorIDs)
399     VALUES (@courseid, @instructorid)
400 END
401 GO
402 --TRIGGER TO GET LOG WHEN INSERT, DELETE, UPDATE ON STUDENTS TABLE
403 Create TRIGGER USISS
404 ON STUDENTS FOR INSERT, UPDATE, DELETE NOT FOR REPLICATION
405 AS
406 SET NOCOUNT ON;
407
408 DECLARE @operation as Varchar(10)
409 DECLARE @Count as int
410 SET @operation = 'Inserted'
411
412 IF @Count = COUNT(*) FROM DELETED
413 BEGIN
414     SET @operation = 'Deleted'
415     SELECT @Count = COUNT(*) FROM INSERTED
416     IF @Count > 0
417         SET @operation = 'Updated'
418 END
419
420 IF @operation = 'Deleted'
421 BEGIN
422     Insert into LOG(LogDate,LogInfo)
423     SELECT GETDATE(),'Deleted' from deleted
424 END
425
426
427
428 IF @operation = 'Inserted'
429 BEGIN
430     Insert into LOG(LogDate,LogInfo)
431     SELECT GETDATE(),'inserted' from inserted
432 END
433
434

```



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```
402 --TRIGGER TO GET LOG WHEN INSERT, DELETE, UPDATE ON STUDENTS TABLE
403 Create TRIGGER USISS
404 ON STUDENTS FOR INSERT, UPDATE, DELETE NOT FOR REPLICATION
405 AS
406 SET NOCOUNT ON;
407
408 DECLARE @operation as Varchar(10)
409 DECLARE @Count as int
410 SET @operation = 'Inserted'
411 SELECT @Count = COUNT(*) FROM DELETED
412 if @Count > 0
413 BEGIN
414     SET @operation = 'Deleted'
415     SELECT @Count = COUNT(*) FROM INSERTED
416     IF @Count > 0
417     SET @operation = 'Updated'
418 END
419
420 if @operation = 'Deleted'
421 BEGIN
422     Insert into LOG(LogDate,LogInfo)
423     SELECT GETDATE(),'Deleted' from deleted
424 END
425
426
427
428 if @operation = 'Inserted'
429 BEGIN
430     Insert into LOG(LogDate,LogInfo)
431     SELECT GETDATE(),'inserted' from inserted
432 END
433
434 ELSE
435 BEGIN
436     INSERT INTO LOG(LogDate,LogInfo)
437     SELECT GETDATE(),'Updated' from inserted
438 END
439
440 GO
441 --CHECK
442 SELECT * FROM LOG
443
444 INSERT INTO STUDENTS(StudentID,StudentFName,StudentLName,StudentEmail,StudentGender,StudentPhone,StudentBirthDay,StudentEducationPlan,StudentStatus,StudentDeptID,StudentEntryType,StudentRegistrat
445 VALUES('12345','ABCD','EFGH','12345@std.yildiz.edu.tr','N','+9005555555555','2020-05-18',2018,'PASSIVE','MTM','OSS',2015)
446 SELECT * FROM LOG
447
448
449
450 GO
451 --TRANSACTION EXAMPLES
452
453 SELECT * FROM STUDENTS
```

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