Week 1 Lecture Assignment

```sql
 5  CREATE TABLE Students (
 6      StudentID INT PRIMARY KEY,
 7      StudentName VARCHAR(100),
 8      DateOfBirth DATE
 9  );
10
11  CREATE TABLE Courses (
12      CourseID INT PRIMARY KEY,
13      CourseName VARCHAR(100)
14  );
15
16  CREATE TABLE Enrollments (
17      EnrollmentID INT PRIMARY KEY,
18      StudentID INT,
19      CourseID INT,
20      EnrollmentDate DATE,
21      DropDate DATE NULL,
22      ValidFrom DATE,
23      ValidTo DATE,
24      TransactionStartTime TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
25      TransactionEndTime DATETIME DEFAULT '9999-12-31 23:59:59',
26      FOREIGN KEY (StudentID) REFERENCES Students(StudentID),
27      FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
28  );
29
30  INSERT INTO Students (StudentID, StudentName, DateOfBirth)
31  VALUES (1, 'Matti', '2000-05-15'),
32         (2, 'Amir', '1999-09-10');
33
34  INSERT INTO Courses (CourseID, CourseName)
35  VALUES (1, 'Database Systems'),
36         (2, 'Data Structures');
37
38  INSERT INTO Enrollments (EnrollmentID, StudentID, CourseID, EnrollmentDate, DropDate, ValidFrom, ValidTo)
39  VALUES (1, 1, 1, '2024-08-18', NULL, '2024-08-18', '9999-12-31');
40
41  INSERT INTO Enrollments (EnrollmentID, StudentID, CourseID, EnrollmentDate, DropDate, ValidFrom, ValidTo)
42  VALUES (2, 2, 2, '2024-08-19', NULL, '2024-08-19', '9999-12-31');
```

```sql
UPDATE Enrollments
SET DropDate = '2024-09-01', ValidTo = '2024-09-01'
WHERE EnrollmentID = 1;

INSERT INTO Enrollments (EnrollmentID, StudentID, CourseID, EnrollmentDate, DropDate, ValidFrom, ValidTo, TransactionStartTime, TransactionEndTime)
VALUES (3, 1, 1, '2024-08-18', '2024-09-01', '2024-08-18', '2024-09-01', CURRENT_TIMESTAMP, '9999-12-31');
```

```sql
3  UPDATE Enrollments
4  SET ValidTo = CURRENT_TIMESTAMP
5  WHERE EnrollmentID = 2;
6
7  INSERT INTO Enrollments (EnrollmentID, StudentID, CourseID, EnrollmentDate, DropDate, ValidFrom, ValidTo, TransactionStartTime, TransactionEndTime)
8  VALUES (4, 2, 2, '2024-08-20', NULL, '2024-08-20', '9999-12-31', CURRENT_TIMESTAMP, '9999-12-31');
```

```sql
4  SELECT * FROM students;
5
```

students (2r × 3c)

#	StudentID 🔑	StudentName	DateOfBirth
1	1	Matti	2000-05-15
2	2	Amir	1999-09-10