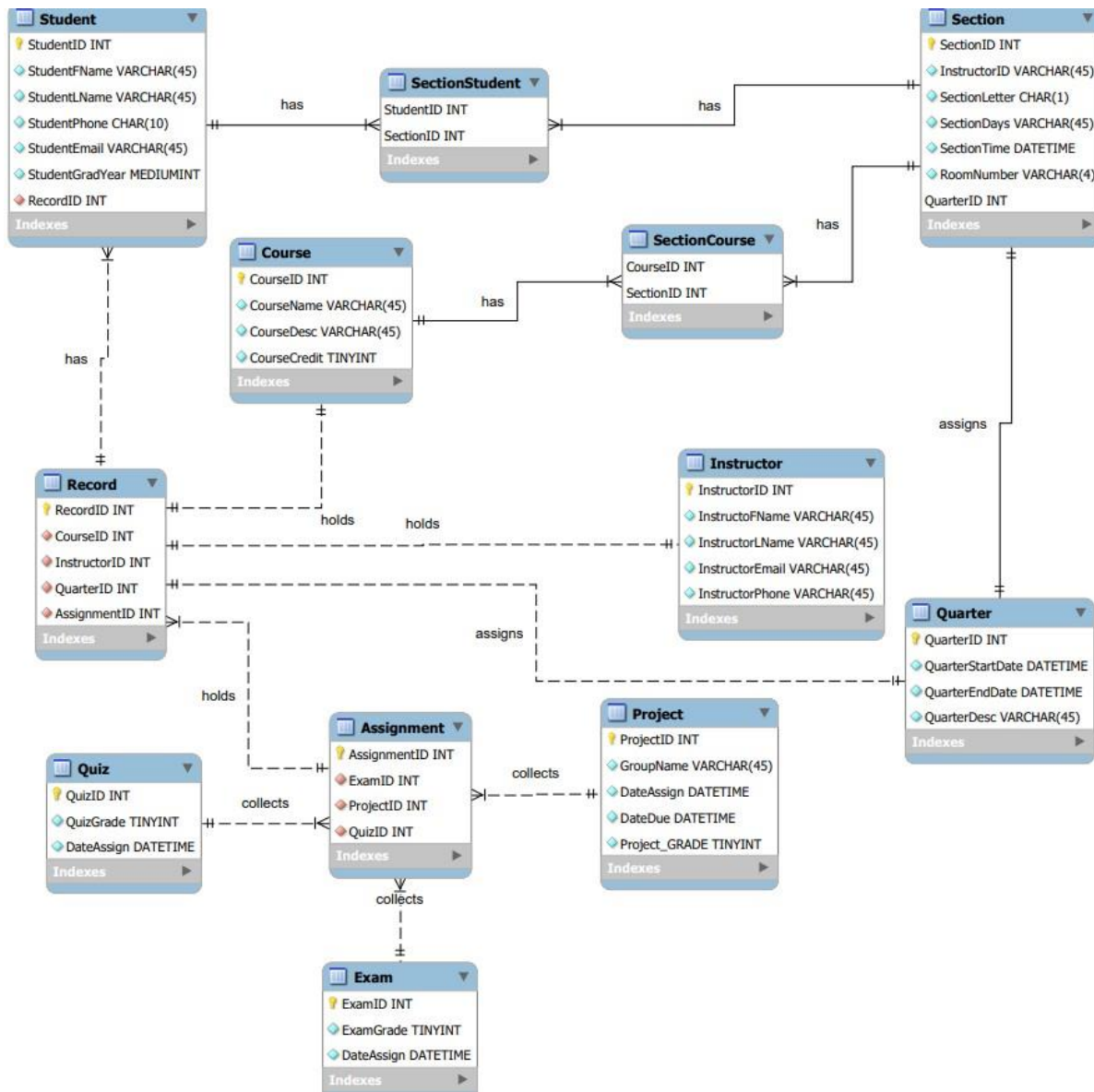


ER Diagram



-- Queries

-- #1 Show the average exam grade.

```
SELECT AVG(ExamGrade)
FROM Exam;
```

	AVG(ExamGrade)
▶	83.2000

-- #2 List all of the instructors that work in the "A" building, sorted by room number.

```
SELECT DISTINCT InstructorLName, InstructorFName
FROM Section JOIN Instructor USING(InstructorID)
WHERE RoomNumber LIKE 'A%'
ORDER BY RoomNumber;
```

	InstructorLName	InstructorFName
▶	Galgey	Leon
	Stutte	Gunther
	Durnall	Lin

-- #3 List all class times in the room A202.

```
SELECT RoomNumber, SectionDays, SectionTime
FROM Section
WHERE RoomNumber = "A202" ORDER BY SectionTime DESC;
```

	RoomNumber	SectionDays	SectionTime
▶	A202	TTH	9:15 AM
	A202	TTH	8:00 AM

#4 Find the contact information for instructors with the last name "Lidgate".

```
SELECT InstructorLName, InstructorFName, InstructorEmail, InstructorPhone
FROM Instructor
WHERE InstructorLNAME = "Durnall";
```

	InstructorLName	InstructorFName	InstructorEmail	InstructorPhone
▶	Durnall	Lin	ldurnall0@techcrunch.com	757-707-0088

--

-- #5 List the courses offered in the Winter quarter.

```
SELECT QuarterDesc, CourseName
FROM Quarter JOIN Section USING(QuarterID) JOIN Course USING(CourseID)
WHERE QuarterDesc = "Winter";
```

	QuarterDesc	CourseName
▶	Winter	EKQZ9038
	Winter	BYLZ7557
	Winter	MQTP8095
	Winter	JTIP1556
	Winter	HMBC1693

-- #6 Return the number of students that have graduated before 2020.

```
SELECT COUNT(StudentID)
FROM Student
WHERE StudentGradYear < 2020;
```

	COUNT(StudentID)
▶	7

-- #7 Return the name of students that were in the group named "Gorilla gorilla".

```
SELECT CONCAT(StudentFNAME, ' ', StudentLNAME) StudentFULLNAME
FROM Student JOIN Record USING(RecordID) JOIN Assignment USING (AssignmentID)
JOIN Project USING (ProjectID)
WHERE GroupName = 'Gorilla gorilla' ORDER BY StudentFULLNAME;
```

	StudentFULLNAME
▶	Pat Skottle

--

#8 List the exam history of the student with the ID '41908376'.

```
SELECT RecordID, AssignmentID, ExamID, ExamGrade
FROM Student JOIN Record USING(RecordID) JOIN Assignment USING(AssignmentID)
JOIN Exam USING(ExamID)
WHERE StudentID = 41908376;
```

	RecordID	AssignmentID	ExamID	ExamGrade
▶	84562133	87482923	11844339	91

-- #9 Return the class schedule for the student(s) named "Tilly Lepope".

```
SELECT StudentID, SectionID, CourseName, CourseCredit, SectionDays, SectionTime,
RoomNumber
FROM Student JOIN SectionStudent USING(StudentID) JOIN Section USING(SectionID) JOIN
Course USING(CourseID)
WHERE StudentFName = "Tilly" AND StudentLName = "Lepope";
```

	StudentID	SectionID	CourseName	CourseCredit	SectionDays	SectionTime	RoomNumber
▶	41908376	49051067	DCVN6135	3	TTH	10:55 AM	C605

-- #10 Return the names of all students in the section with ID '17009066', ordered by last name.

```
SELECT SectionID, StudentID, StudentLName, StudentFName
FROM Section JOIN SectionStudent USING(SectionID) JOIN Student USING(StudentID)
WHERE SECTIONID = 17009066
ORDER BY StudentLName;
```

#11 Update first name with ID = 61749685.

```
SET StudentFName = 'Nathan', StudentGradYear = 2011
```

```
WHERE StudentID = 61749685;
```

StudentID	StudentFName	StudentLName	StudentPhone	StudentEmail	StudentGradYear	RecordID
41908376	Tilly	Lepope	557-917-38	tlepope9@zimbio.com	2022	84562133
43320953	Siegfried	Goldsby	743-985-42	sgoldsby3@usatoday.com	2007	2311535
50024008	Merilee	Lumsdon	287-496-57	mlumsdon2@sourceforge.net	2018	2346758
54131555	Mirelle	Blodgett	562-864-21	mblodgett1@jimdo.com	2021	3252675
59164866	Katharine	Pavolini	701-293-83	kpavolini0@opera.com	2003	4564745
61749685	Nathan	Skottle	471-719-18	pskottle5@salon.com	2011	5678345
65764781	Noak	Cours	182-530-61	ncours4@wisc.edu	2016	6482827
79047654	Stormy	Jertz	591-499-26	sjertz8@canalblog.com	2006	7456245
89633427	Kleon	Dancey	4-88	kdancey7@wikispaces.com	2020	8763525
93714844	Avis	Denziloe	466-648-36	adenziloe6@example.com	2010	9867772
NULL	NULL	NULL	NULL	NULL	NULL	NULL

--

#12 Return the names of the graduated students with AVG(ExamGrade) >= 90, order by full name.

```
SELECT CONCAT(StudentFNAME, ' ', StudentLNAME) StudentFullName, RecordID,
AssignmentID, ExamID, ROUND(AVG(ExamGrade),2) AS AVG_ExamGrade
FROM Student JOIN Record USING(RecordID) JOIN Assignment USING(AssignmentID)
JOIN Exam USING (ExamID) JOIN Quarter USING (QuarterID)
WHERE StudentGradYear <= 2021
GROUP BY CONCAT(StudentFNAME, ' ', StudentLNAME), RecordID, AssignmentID,
ExamID
HAVING AVG_ExamGrade >= 90
ORDER BY StudentFullName;
```

	StudentFullName	RecordID	AssignmentID	ExamID	AVG_ExamGrade
▶	Avis Denziloe	9867772	74276428	69856066	90.00
	Mirelle Blodgett	3252675	14252341	54693803	91.00
	Pat Skottle	5678345	65647278	59337698	99.00

--

-- STORED PROCEDURE

```
DELIMITER //
```

```
CREATE PROCEDURE FindMySchedule(IN firstName VARCHAR(45), lastName  
VARCHAR(45))
```

```
BEGIN
```

```
    SELECT StudentID, SectionID, CourseName, CourseCredit, SectionDays, SectionTime,  
RoomNumber
```

```
    FROM Student JOIN SectionStudent USING(StudentID) JOIN Section USING(SectionID)  
JOIN Course USING(CourseID)
```

```
    WHERE StudentFName LIKE firstName AND StudentLName LIKE lastName;
```

```
END //
```

```
DELIMITER ;
```

```
CALL FindMySchedule('Avis', 'Denziloe');
```

	StudentID	SectionID	CourseName	CourseCredit	SectionDays	SectionTime	RoomNumber
▶	93714844	17009066	GALA1474	2	TTH	10:55 AM	A209