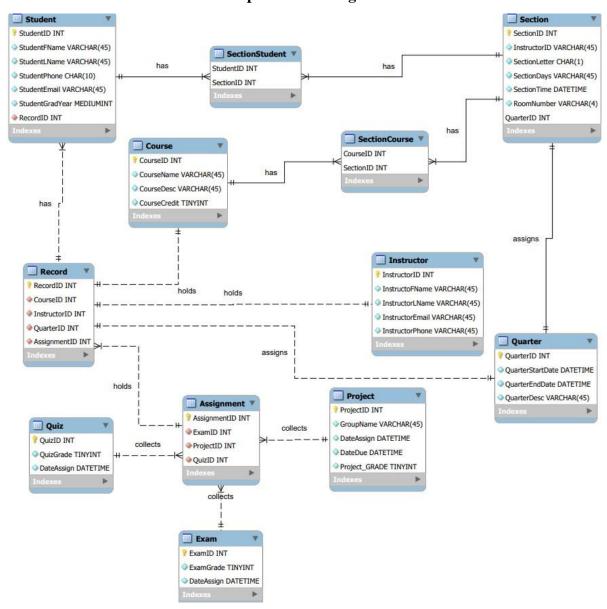
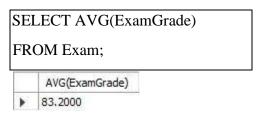
Updated ER Diagram



-- 12 SQL Queries -

- #1 Show the average exam grade.



-- #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";

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	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;

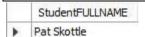


-- #7 Return the name of students that were in the group named "Gorilla gorilla".

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;



--

#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.

UPDATE Student

SET StudentFName = 'Nathan', StudentGradYear = 2011

WHERE StudentID = 61749685;

	StudentID	StudentFName	StudentLName	StudentPhone	StudentEmail	StudentGradYear	RecordI
	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	Patrick	Skottle	471-719-18	pskottle5@salon.com	2009	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	809-414-88	kdancey7@wikispaces.com	2020	8763525
	93714844	Avis	Denziloe	466-648-36	adenziloe6@example.com	2010	9867772
	NULL	NULL	NULL	HULL	NULL	NULL	NULL
ľ	StudentID	StudentFName	StudentLName	StudentPhone	StudentEmail	StudentGradYear	RecordII
	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 [Dancey 1-88	kdancey7@wikispaces.com	2020	8763525
	93714844	Avis	Denziloe	466-648-36	adenziloe6@example.com	2010	9867772
3	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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#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