Catalog View (3 different entities)

college	department	course_code	course_title	credits
College of Physical	Computer Information	CIT 111	Intro to Databases	3
Science and Engineering	Technology			
College of Business and	Economics	ECON 388	Econometrics	4
Communication				
College of Business and	Economics	ECON 150	Microeconomics	3
Communication				
College of Language and Humanities and		HUM 376	Classical Heritage	2
Letters	Philosophy			

Section View (4 different entities)

year	term	course_code	section_number	faculty_fname	faculty_Iname	capacity
2019	Fall	CIT 111	1	Marty	Morring	30
2019	Fall	ECON 150	1	Natalia	Nevarez	50
2019	Fall	ECON 150	2	Natalia	Nevarez	50
2019	Fall	ECON 388	1	Ben	Barrus	35
2019	Fall	HUM 376	1	John	Jensen	30
2018	Winter	CIT 111	2	Marty	Morring	30
2018	Winter	CIT 111	3	Gloria	Garcia	35
2018	Winter	ECON 150	1	Natalia	Nevarez	50
2018	Winter	ECON 150	2	Natalia	Nevarez	50
2018	Winter	HUM 376	1	John	Jensen	30

Student View (1 entity)

first_name	last_name	gender	city	state	birthdate
Paul	Miller	М	Dallas	TX	1996-02-22
Katie	Smith	F	Provo	UT	1995-07-22
Kelly	Jones	F	Provo	UT	1998-06-22
Devon	Merrill	М	Mesa	AZ	2000-07-22
Mandy	Murdock	F	Topeka	KS	1996-11-22
Alece	Adams	F	Rigby	ID	1997-05-22
Bryce	Carlson	М	Bozeman	MT	1997-11-22
Preston	Larsen	М	Decatur	TN	1996-09-22
Julia	Madsen	F	Rexburg	ID	1998-09-22
Susan	Sorensen	F	Mesa	AZ	1998-08-09

Enrollment View (linking table with a two-column composite key)

```
Alece
        enrolled in CIT 111
                              Winter 2018 Section 3
Bryce
        enrolled in CIT 111
                              Winter 2018 Section 2
Bryce
        enrolled in ECON 150 Winter 2018 Section 1
Bryce
        enrolled in HUM 376 Winter 2018 Section 1
        enrolled in HUM 376 Fall 2019
Devon
                                           Section 1
Julia
        enrolled in ECON 150 Winter 2018 Section 2
Katie
        enrolled in ECON 388 Fall 2019
                                           Section 1
Kelly
        enrolled in ECON 388 Fall 2019
                                           Section 1
Mandy enrolled in ECON 388 Fall 2019
                                           Section 1
Mandy
        enrolled in HUM 376 Fall 2019
                                           Section 1
Paul
        enrolled in CIT 111
                              Fall 2019
                                           Section 1
Paul
        enrolled in ECON 150 Fall 2019
                                           Section 2
Preston enrolled in ECON 150 Winter 2018 Section 2
                              Winter 2018 Section 2
        enrolled in CIT 111
Susan
```

You can use the following SELECT query to check your .sql file. After you complete your .sql file complete with the forward engineering code and the INSERT statements, do the following:

- 1. Run all the commands in your .sql file by clicking the left lightning bolt icon.
- 2. Run the following query. You may have to change some of the table names and column names in order to get the query to run without errors.

```
SELECT term_year, term_name, course_code, section_number, faculty_fname, faculty_lname, capacity
```

FROM department AS d

INNER JOIN course AS c ON c.department_id = d. department_id INNER JOIN section AS s ON s.course_id = c.course_id INNER JOIN faculty AS f ON f.faculty_id = s.faculty_id INNER JOIN term AS t ON t.term id = s.term id

ORDER BY t.term id, d.department id, course code, section number;

- 3. Compare the results of the SELECT query with the data in the Section View above. If you completed your ERD and your INSERT statements correctly, the results of the query and the Enrollment View will be the same.
- 4. Run the following query. You may have to change some of the table names and column names in order to get the query to run without errors.

5. Compare the results of the SELECT query with the data in the Enrollment View above. If you completed your ERD and your INSERT statements correctly, the results of the query and the Enrollment View will be the same.