

Assignment #1

Simple Queries

1. Write a SELECT statement to list course data sorted by course number. (30 rows)

```
SELECT *  
  FROM course  
 ORDER BY course_no
```

2. Write a SELECT statement to list zipcodes and their cities in New York State sorted by zipcode. (123 rows)

```
SELECT zip, city  
  FROM zipcode  
 WHERE state = 'NY'  
 ORDER BY zip
```

3. Write a SELECT statement to list first and last names of all instructors sorted by last name. (10 rows)

```
SELECT first_name, last_name  
  FROM instructor  
 ORDER BY last_name
```

4. Write a SELECT statement to list courses that have the course number 20 as a prerequisite. (5 rows)

```
SELECT *  
  FROM course  
 WHERE prerequisite = 20
```

5. Write a SELECT statement to list the last and first names in last name order of students that are currently employed by the firm Electronic Engineers and have last names starting with "G". (2 rows)

```
SELECT last_name, first_name, employer  
  FROM student  
 WHERE employer = 'Electronic Engineers'  
       AND last_name LIKE 'G%'  
 ORDER BY last_name
```

6. Write the same SELECT statement as #5 but include students who are Electronic Engineers employees with the last name beginning with S or B. (Hint: Use parentheses in the WHERE clause to isolate the OR logic). (2 rows)

```
SELECT last_name, first_name, employer  
  FROM student  
 WHERE employer = 'Electronic Engineers'  
       AND (last_name LIKE 'S%' OR last_name LIKE 'B%')
```

```
ORDER BY last_name
```

7. Write a SELECT statement to list students that live either in zip code 11433, 11434, or 11435. (5 rows)

```
SELECT *  
  FROM student  
 WHERE zip IN ('11433', '11434', '11435')
```

8. Write a SELECT statement to list the courses that cost \$1095 or less. (3 rows)

```
SELECT *  
  FROM course  
 WHERE cost <= 1095
```

9. Write a SELECT statement to list the first and last name of students that do not have the salutation of "Dr.". (267 rows)

```
SELECT first_name, last_name  
  FROM student  
 WHERE salutation <> 'Dr.'
```

10. Write a SELECT statement to list courses that do not have a prerequisite. (4 rows)

```
SELECT course_no, prerequisite  
  FROM course  
 WHERE prerequisite IS NULL
```