David Smith
STAT 4260
Assignment 6

1.

```
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY > (SELECT SALARY
FROM employees
WHERE LAST_NAME = 'Bull');
```

2.

```
SELECT e.FIRST_NAME, e.LAST_NAME
FROM employees e INNER JOIN
(SELECT DEPARTMENT_ID
FROM departments
WHERE DEPARTMENT_NAME = 'IT') AS d
ON e.DEPARTMENT_ID = d.DEPARTMENT_ID;
```

3.

```
SELECT e.FIRST_NAME, e.LAST_NAME
FROM employees e INNER JOIN departments d
ON e.DEPARTMENT_ID = d.DEPARTMENT_ID
INNER JOIN locations l
ON d.LOCATION_ID = l.LOCATION_ID
INNER JOIN (SELECT COUNTRY_ID
FROM countries
WHERE COUNTRY_NAME = 'United States of America') AS c
ON l.COUNTRY_ID = c.COUNTRY_ID
WHERE e.MANAGER_ID != 0;
```

4.

```
SELECT FIRST_NAME, LAST_NAME
FROM employees
WHERE EMPLOYEE_ID = ANY (SELECT MANAGER_ID
FROM employees);
```

5.

```
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
```

```
WHERE SALARY > (SELECT AVG(SALARY)
FROM employees);
```

6.

```
SELECT e.FIRST_NAME, e.LAST_NAME, e.SALARY
FROM employees e
WHERE e.SALARY = (SELECT j.MIN_SALARY
FROM jobs j
WHERE e.JOB_ID = j.JOB_ID);
```

7.

```
SELECT e.FIRST_NAME, e.LAST_NAME, e.SALARY
FROM employees e INNER JOIN
(SELECT DEPARTMENT_ID
FROM departments
WHERE DEPARTMENT_NAME LIKE 'IT%') AS d
ON e.DEPARTMENT_ID = d.DEPARTMENT_ID
WHERE e.SALARY > (SELECT AVG(SALARY)
FROM employees);
```

8.

```
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY = (SELECT MIN(SALARY)
FROM employees);
```

9.

```
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY > ALL (SELECT SALARY
FROM employees
WHERE JOB_ID = 'SH_CLERK')
ORDER BY SALARY;
```

10.

```
SELECT e.EMPLOYEE_ID, e.FIRST_NAME, e.LAST_NAME, d.DEPARTMENT_NAME
FROM employees e INNER JOIN
(SELECT DEPARTMENT_ID, DEPARTMENT_NAME
FROM DEPARTMENTS) AS d
ON e.DEPARTMENT_ID = d.DEPARTMENT_ID;
```

11.

```
SELECT e.EMPLOYEE_ID, e.FIRST_NAME, e.LAST_NAME, e.SALARY
FROM employees e
WHERE e.SALARY > (SELECT AVG(e_avg.SALARY)
FROM employees e_avg
WHERE e_avg.DEPARTMENT_ID = e.DEPARTMENT_ID);
```

12.

```
SELECT DISTINCT e.SALARY
FROM employees e
WHERE 5 = (SELECT COUNT(DISTINCT e_ct.SALARY)
FROM employees e_ct
WHERE e_ct.SALARY >= e.SALARY);
```

13.

```
SELECT *
FROM (SELECT *
FROM employees
ORDER BY EMPLOYEE_ID DESC
LIMIT 10) AS e
ORDER BY EMPLOYEE_ID;
```

14.

```
SELECT DEPARTMENT_ID, DEPARTMENT_NAME
FROM departments
WHERE DEPARTMENT_ID NOT IN (SELECT DEPARTMENT_ID
FROM employees);
```

15.

```
SELECT DISTINCT SALARY
FROM employees e
WHERE 3 >= (SELECT COUNT(DISTINCT SALARY)
FROM employees e_ct
WHERE e_ct.SALARY >= e.SALARY);
```