**Practice Exercise 6**

**Consider the following tables:**

CREATE TABLE locations

( location\_id INTEGER NOT NULL,

city CHAR(20) NOT NULL,

store\_manager INTEGER,

CONSTRAINT locations\_location\_id\_pk

PRIMARY KEY( location\_id ) );

CREATE TABLE departments

( department\_id INTEGER NOT NULL,

department\_name CHAR(50) NOT NULL,

CONSTRAINT departments\_department\_id\_pk

PRIMARY KEY( department\_id ) );

CREATE TABLE locations\_departments

( location\_id INTEGER NOT NULL,

department\_id INTEGER NOT NULL,

department\_manager INTEGER,

CONSTRAINT locs\_depts\_loc\_id\_depts\_id\_pk

PRIMARY KEY( location\_id, department\_id ) );

CREATE TABLE employees

( employee\_id INTEGER NOT NULL,

first\_name CHAR(15) NOT NULL,

m\_initial CHAR(1),

last\_name CHAR(15) NOT NULL,

soc\_sec\_no INTEGER NOT NULL,

birth\_date DATE NOT NULL,

sex CHAR(1) NOT NULL,

pension\_contr CHAR(1) NOT NULL,

hire\_date DATE NOT NULL,

store\_location INTEGER NOT NULL,

work\_department INTEGER,

job\_class CHAR(1),

job\_level CHAR(1) NOT NULL,

coach\_id INTEGER,

salary DECIMAL(9,2) NOT NULL,

bonus DECIMAL(7,2),

commission DECIMAL(7,2),

CONSTRAINT employees\_employee\_id\_pk

PRIMARY KEY( employee\_id ) );

**Create the queries for the following tasks:**

1. List the department id and the lowest salary of the department with the highest average salary.
2. Select all coaches (list the id, and the number of employees) that coach more than two (2) employees.
3. Show the department id, department name, and the number of employees working in the department(s) that has the maximum and the department(s) that has the minimum number of employees.
4. Display the location\_id and city for all locations that have more employees than the average.
5. Display the department\_id and department\_name for all departments that have more employees than the average.
6. List all employees (first\_name, last\_name, employee\_id) whose salary is lower than the average salary of the location they work in.
7. List all employees (first\_name, last\_name, employee\_id) whose salary is higher than the average salary of the department they work in.