CMSC 424 – Database Design
Spring 2008

SQL Assignment Part A Solutions

1. ALTER USER <username> IDENTIFIED BY <new Password>;

2. DESCRIBE organization;

3. SELECT name, capital, population FROM country;

4. SELECT name, population
    FROM country
    WHERE population = (SELECT MAX(population) FROM country)
    OR
    population = (SELECT MIN(population) FROM country);

5. SELECT C.Name, CI.Name, CI.longitude, CI.latitude
    FROM country C, city CI
    WHERE C.capital=CI.Name
    AND CI.country=C.code;

6. SELECT percentage
    FROM encompasses
    WHERE country=(SELECT CODE
             FROM country
                 WHERE Name ='Russia')
                  AND continent ='Europe';

7.
```
SELECT name
FROM country
WHERE code IN
        (SELECT country2
        FROM borders
        WHERE country1= (
                SELECT code
                FROM country
                WHERE name = 'Romania')
         UNION
         (SELECT country1
         FROM borders
         WHERE country2= (
                SELECT code
                FROM country
                WHERE name ='Romania')));
```

8.
```sql
SELECT sum(Population)
FROM country
WHERE code IN
        (SELECT country2
        FROM borders
        WHERE country1= (
                SELECT code
                FROM country
                WHERE name = 'Romania')
         UNION
         (SELECT country1
         FROM borders
         WHERE country2= (
                SELECT code
                FROM country
                WHERE name ='Romania')));
```

9.   Question 9 should be submitted along with Part B

10.   ```sql
      SELECT C.Name, E.continent, EC.gdp
      FROM encompasses E, country C, Economy EC
      WHERE E.country= C.code
      AND EC.country= C.code
      ORDER BY E.continent, EC.gdp ASC;
      ```