-- -----------------------------------------

-- SQL문제 1번

-- -----------------------------------------

-- 1.1

SELECT \* FROM city;

-- 1-2

SELECT Language, Percentage

FROM countrylanguage

WHERE CountryCode = 'CHE';

-- 1-3

INSERT INTO `world2`.`city`(`Name`, `CountryCode`, `District`, `Population`)

VALUES ('Cairo', 'EGY', 'Cairo Governorate', 9500000);

-- 1-4

SELECT replace(C1.Name, C2.Name, 'GoodSite')

FROM city C1

JOIN city C2 ON C1.ID = C2.ID

WHERE C2.Name = (SELECT Name FROM city WHERE CountryCode = 'PNG');

-- 1-5

SELECT \*

FROM country

ORDER BY Name DESC;

-- -----------------------------------------

-- SQL문제 2번

-- -----------------------------------------

-- 2-1

SELECT upper(Name) AS NAME

FROM city;

-- 2-2

SELECT concat(ID, "-", CountryCode) AS IDCountryCode

FROM city;

-- 2-3

SELECT length(District) AS District

FROM city;

-- 2-4

SELECT AVG(Population)

FROM city;

-- 2-5

SELECT Continent, MAX(GNP)

FROM country

GROUP BY Continent

ORDER BY MAX(GNP);

-- -----------------------------------------

-- SQL문제 3번

-- -----------------------------------------

-- 3-1

SELECT C1.Name, C2.Name

FROM city C1

INNER JOIN country C2 ON C1.CountryCode = C2.Code;

-- 3-2

SELECT c.Name, l.Language

FROM country c

LEFT OUTER JOIN countrylanguage l ON c.Code = l.CountryCode;

-- 3-3

SELECT c1.Name

FROM city c1

JOIN city c2 ON c1.ID = c2.ID

WHERE c2.Population = (SELECT MAX(Population) FROM city);

-- -----------------------------------------

-- JDBC문제 4번

-- -----------------------------------------

-- 4-1

public CityVO() {}  
  
public CityVO(int ID, String name, String countryCode, String district, int population) {  
 this.ID = ID;  
 Name = name;  
 CountryCode = countryCode;  
 District = district;  
 Population = population;  
}  
  
public int getID() {  
 return ID;  
}  
  
public void setID(int ID) {  
 this.ID = ID;  
}  
  
public String getName() {  
 return Name;  
}  
  
public void setName(String name) {  
 Name = name;  
}  
  
public String getCountryCode() {  
 return CountryCode;  
}  
  
public void setCountryCode(String countryCode) {  
 CountryCode = countryCode;  
}  
  
public String getDistrict() {  
 return District;  
}  
  
public void setDistrict(String district) {  
 District = district;  
}  
  
public int getPopulation() {  
 return Population;  
}  
  
public void setPopulation(int population) {  
 Population = population;  
}  
  
@Override  
public String toString() {  
 return "CityVO{" +  
 "ID=" + ID +  
 ", Name='" + Name + '\'' +  
 ", CountryCode='" + CountryCode + '\'' +  
 ", District='" + District + '\'' +  
 ", Population=" + Population +  
 '}';  
}

-- 4-2

public void insert() {  
  
 //SQL문 완성  
 String sql = "insert into city (name, countryCode, district, population) values (Cairo, EGY, Cairo Governorate, 9500000)";  
  
 */\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \* 구현 코드  
 \*  
 \*  
 \*  
 \*/* PreparedStatement ps = null;  
 try {  
 ps = conn.prepareStatement(sql);  
 ps.executeUpdate();  
 } catch (Exception e) {  
 e.printStackTrace();  
 } finally {  
 try{  
 ps.close();  
 conn.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
} //insert기능 구현

-- -----------------------------------------

-- JDBC문제 5번

-- -----------------------------------------

-- 5-1

public List<CityVO> select(int ID) {  
  
 //SQL문 완성  
 String sql = "SELECT \* FROM city WHERE ID = ?";  
  
 */\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \* 구현 코드  
 \*  
 \*  
 \*  
 \*/* List<CityVO> cityVOList = new ArrayList<>();  
 PreparedStatement ps = null;  
 try {  
 ps = conn.prepareStatement(sql);  
 ps.setInt(1, ID);  
 ResultSet rs = ps.executeQuery();  
 while (rs.next()) {  
 CityVO cityVO = new CityVO();  
 cityVO.setID(rs.getInt("ID"));  
 cityVO.setName(rs.getString("NAME"));  
 cityVO.setCountryCode(rs.getString("COUNTRY\_CODE"));  
 cityVO.setDistrict(rs.getString("DISTRICT"));  
 cityVO.setPopulation(rs.getInt("POPULATION"));  
 cityVOList.add(cityVO);  
 }  
 } catch (Exception e) {  
 e.printStackTrace();  
 } finally {  
 try{  
 ps.close();  
 conn.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 return cityVOList;

-- 5-2

cityDAO2.select(ID);  
System.*out*.println("데이터 검색 호출 완료됨.");  
System.*out*.println(cityVOList);