Assignment Five

DDL and DML

Complete your answers as for the following questions from the course textbook. Submissions will be word processed and submitted in pdf format.

Chapter Eight Questions

- Review Questions: 2, 5, 7

Rick's Problems

1. Using Figure P7.1 in the text as a guide, write the SQL/DDL to create the Job and EMPLOYEE tables. Note the cardinality requirements for the relationship indicates a foreign key and values are required. Write the SQL commands to add the first three records to the JOB table and the first three records to the EMPLOYEE table. Consider using your personal database (`mysql> use <username>;`) on cs1103.cs.unb.ca to test your work.
    a. What happens if you create the EMPLOYEE table before the JOB table? Why?
    b. What happens if you add an employee record with a JOB _CODE not present in the JOB table? Why?
2. Data Management
    a. Create a table in your MySQL/MariaDB account, Schools, as shown below:
    ```
    /* Copy and paste this code to create the table */
    DROP TABLE IF EXISTS schools;
    CREATE TABLE schools (
      schoolId INT NOT NULL AUTO_INCREMENT,
      name     varchar(50) NOT NULL,
      province varchar(20) DEFAULT NULL,
      language char(2)     DEFAULT NULL,
      level    varchar(10) DEFAULT NULL,
      PRIMARY KEY (schoolId)
    );
    ```
    b. Create and test three types of SQL statements. Show your work from the command line (i.e. correct command and result).
        i. Create a new School record
            1. Add several records to the table
            2. Read all School records
        ii. For the School record with a schoolId of 2, update the province to 'Manitoba'.
            1. Read all School records
        iii. Delete the record whose province value is 'Manitoba'.
            1. Read all School records