

Due: 17:00 June 22, 2023 (Pacific Time)

(20 marks in total, 6% toward your final grade)

Check the GARDEN GLORY PROJECT from page 256 in the textbook. Use SQL Microsoft SQL Server 2019 and SQL Server Management Studio to complete the following. You must follow the naming conventions (e.g., upper/lower cases).

- a. Create a new database named GardenGlory and create the 5 tables as well as foreign key constraints, namely steps A and B on page 257 (you should use GardenGlory as the database name, instead of GARDEN\_GLORY). You need to use table constraints when creating the tables. You also need to justify your assumptions regarding cascading updates and deletions in the foreign key constraints in your report. Save the statements as GardenGlory-Create.sql. (6 marks)
- b. Write SQL statements to insert the data into each table based on the figures. Save the statements as GardenGlory-Insert.sql. Assume that any surrogate key value will be supplied by the DBMS. Use the data in Figure 3-38, Figure 3-39, Figure 3-40, Figure 3-41, and Figure 3-42. (5 marks)
- c. Write an SQL statement to display PropertyName for all the apartments in Redmond. (2 marks)
- d. Write an SQL statement to show City and the number of properties for each city (give a proper column name) and sort the result by the number of properties in the descending order. (2 marks)
- e. Write an SQL statement to list LastName, FirstName, and CellPhone for all employees having an experience level of Master and FirstName that begins with the letter J. (2 marks)

Save the SQL queries of steps c-e in a single file GardenGlory-Query.sql and attach the screenshots of the results in the report.

### Submission

1. Your submission should be a compressed zip folder named assignment2-ID.zip (replace ID with your student number) that consists of
  - 1) A PDF report file named assignment2.pdf with your name and student number on the first page, the assumptions and explanations in step a, and the screenshots of the results in steps c-e. (2 marks)
  - 2) 3 sql files. Provide your name and student number as comments at the top of each sql file.
2. You MUST do the assignment individually.
3. You MUST submit your assignment through Blackboard by the due date. You may submit your work multiple times, but only the last submission before the due will be graded. NO LATE SUBMISSION.
4. 1 mark for submission following the instructions.

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