MSIS/IT 230

Phase 7 Requirements

Modifying Tables

In this final phase you will demonstrate your knowledge of writing aggregate function and modifying data. You will use aggregate functions and update, delete and insert techniques to modify the data.

You will create one .sql file that contains all the statements and submit it to Blackboard for grading. Use aliases where needed.

There are nine sets of statements that you will write. Some will require multiple statements to perform the functionality. The first five require the use of aggregate functions; the last four will require the use of update statements followed by a Select to validate the data has been changed correctly. Each is worth the point value listed with the requirement. To receive full credit your statements must be syntactically and logically correct and must return the correct results. Please be sure that your statements are in the order listed below. I have provided screenshots of expected results; query 8 and 9 output depend on data you created.

**Note: if you make a mistake after step 5, you will need to run the Create and Insert statements again before running the script, so the data is in the condition it was prior to any updates.**

1. Write the query to return the State and the total number of patients in each State. Sort on State. (10 points)

A screenshot of a medical report

Description automatically generated

1. Write the query that will return the earliest and the latest date for all appointments that are Scheduled. (10 points)

A white box with black text

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1. Write the query that will return the employee type and the total number of employees of each type. Sort on TypeID. (10 points)

A screenshot of a computer

Description automatically generated

1. Write the query that will return the day of the week and the total number of employees working on that day. (20 points)

A screenshot of a computer

Description automatically generated

1. Write the query that will return the gender and the number of patients for each gender. (25 points)

A screenshot of a calendar

Description automatically generated

1. After running the queries in Phase 4 it was discovered that the gender for Deborah Winsor was incorrect. Write the SQL statement to change that to an F. After executing that query, write the query that will return a list of patients sorted by gender. (10 points)

A table of names and numbers

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1. Write the statement to change the appointment table so that all appointments that were scheduled are set to Complete. After executing that query, write the query that will return all records in the appointment table sorted by status.(15 points)

A screenshot of a computer

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1. Write insert statements to add one record into the Diagnosis table for each appointment that was changed to Complete. You will need to use separate Insert statements for each row. Use whatever data you want to complete these inserts. After all rows have been inserted, write the query that will list all of the data in the Diagnosis table. (25 points)

A screenshot of a computer

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1. Write the queries to change the appointment table so that all appointments that are not Complete are set to Scheduled. Be sure to include appropriate data for Date, StartTime, and Duration. After those queries are done, write the query that will display all the data in the appointment table sorted by status (25 points)

A screenshot of a computer

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