**Database Management System – cs422 DE**

**Lab 3 – Week 7**

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1. [3] Write and execute a T-SQL stored procedure *Factorial*(*n*), which computes and outputs the factorial of the input parameter *n*. If *n* is negative, then the procedure prints an error message.

Attach the screenshots of the output and the command which you used to execute the SP.

ANS:

Text

Description automatically generated

Graphical user interface, text, application, Word

Description automatically generated

Graphical user interface, text, application, Word

Description automatically generated

1. [7] Create a Table *Employee* with the fields: social security no. (primary key), name, position, no. of dependents, annual salary.

Write and execute a T-SQL procedure *Compute\_Tax* to do the following:

* Create a new table *Tax* with fields: social security no., income tax.
* Fill the table *Tax* with data by computing the income tax for each person in the Employee Table.

The income tax is computed from the annual salary S and the number of dependents D.

Net Salary: S - (7000 + D\*950)

Tax Computed as follows:

* 10% of the first 15,000 of net salary;
* plus 15% of the next 15,000 of net salary;
* plus 28% of any net salary over 30,000.

For getting full credit for this problem, you need to show me the complete code for the *Compute\_Tax* SP. Also attach the screenshots of the *Employee* and the new *Tax* table.

ANS:

Table

Description automatically generated

Text

Description automatically generated

Table

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Description automatically generated with low confidence