Assignment Day4 –SQL: Comprehensive practice

# Answer following questions

1. What is View? What are the benefits of using views?
2. Can data be modified through views?
3. What is stored procedure and what are the benefits of using it?
4. What is the difference between view and stored procedure?
5. What is the difference between stored procedure and functions?
6. Can stored procedure return multiple result sets?
7. Can stored procedure be executed as part of SELECT Statement? Why?
8. What is Trigger? What types of Triggers are there?
9. What is the difference between Trigger and Stored Procedure?

# Write queries for following scenarios

Use Northwind database. All questions are based on assumptions described by the Database Diagram sent to you yesterday. When inserting, make up info if necessary. Write query for each step. Do not use IDE. BE CAREFUL WHEN DELETING DATA OR DROPPING TABLE.

1. Create a view named “view\_product\_order\_[your\_last\_name]”, list all products and total ordered quantity for that product.
2. Create a stored procedure “sp\_product\_order\_quantity\_[your\_last\_name]” that accept product id as an input and total quantities of order as output parameter.
3. Create a stored procedure “sp\_product\_order\_city\_[your\_last\_name]” that accept product name as an input and top 5 cities that ordered most that product combined with the total quantity of that product ordered from that city as output.
4. Create 2 new tables “people\_your\_last\_name” “city\_your\_last\_name”. City table has two records: {Id:1, City: Seattle}, {Id:2, City: Green Bay}. People has three records: {id:1, Name: Aaron Rodgers, City: 2}, {id:2, Name: Russell Wilson, City:1}, {Id: 3, Name: Jody Nelson, City:2}. Remove city of Seattle. If there was anyone from Seattle, put them into a new city “Madison”. Create a view “Packers\_your\_name” lists all people from Green Bay. If any error occurred, no changes should be made to DB. (after test) Drop both tables and view.
5. Create a stored procedure “sp\_birthday\_employees\_[you\_last\_name]” that creates a new table “birthday\_employees\_your\_last\_name” and fill it with all employees that have a birthday on Feb. (Make a screen shot) drop the table. Employee table should not be affected.
6. How do you make sure two tables have the same data?

7.

|  |  |  |
| --- | --- | --- |
| First Name | Last Name | Middle Name |
| John | Green |  |
| Mike | White | M |

Output should be

|  |
| --- |
| Full Name |
| John Green |
| Mike White M. |

Note: There is a dot after M when you output.

8.

|  |  |  |
| --- | --- | --- |
| Student | Marks | Sex |
| Ci | 70 | F |
| Bob | 80 | M |
| Li | 90 | F |
| Mi | 95 | M |

Find the top marks of Female students.

If there are to students have the max score, only output one.

9.

|  |  |  |
| --- | --- | --- |
| Student | Marks | Sex |
| Li | 90 | F |
| Ci | 70 | F |
| Mi | 95 | M |
| Bob | 80 | M |

How do you out put this?

GOOD LUCK.