Assignment & Interview Questions

1. Difference between the View, Function and Stored Procedure?
2. What is Magic Tables or Intermediate tables?
3. How many types of triggers we have in SQL SERVER?
4. Advantage of Stored Procedure?
5. Advantage & Disadvantage of Functions?
6. How many types of functions we have in SQL SERVER?
7. Can we include DML statements in the Functions?
8. How many clustered Index we can have on a single table in SQL SERVER?
9. Trigger
   1. Create a table student with student’s ID,Name,Gender and academic year, current class/grade/.
   2. Create a audit Table so that each year student’s data can be saved in it.
   3. Insert text in Audit table for Insert statement “<Name> has enrolled for <class> in <year>.”
   4. Insert the text in Audit Table for Update Statement like “ <Student Name> has been promoted from <class> to <class> in <academicYear>
   5. Insert the text in Audit Table for Delete statement like “<student> has left the school in <YEAR>”.
   6. All the values defined in <> are the columns names.
10. Stored Procedure
    1. Create a procedure to apply all the DML statements. We can use table created in Step (9.a).
    2. In case if value already exist in table use update statement and for new values provide insert statement.
    3. If you want to delete the values, handle the same in stored procedure.
11. Create a function to calculate the AGE of a customer. You can refer the DIM CUSTOMER table from the AdventureWorksDW database. Function should return an integer value. Hint : Use Scalar function.
12. Create a employee Table and insert values like Salary,Gendder,DOB,Age in it.
    1. Provide the details of employee’s whose is having 2nd highest salary.
    2. Delete the employee who is having duplicate entries from the table – Ref : Try to use CTE
    3. Provide the ranking of employee based on their Salary. Please divide the Ranking based on the Gender.