Assignment 3 Part 1

Name: Tzu-Ching Chuang

1. In SQL Server, assuming you can find the result by using both joins and subqueries, which one would you prefer to use and why?

It depends. If there are two table with huge records, then I would suggest JOIN function because JOIN has optimized when compared two tables. Otherwise, if two tables with small or medium records, I will use subqueries to handle the situation.

1. What is CTE and when to use it?

CTS is common table expression which creates a temporary named result set. It can be used when we need disposable tables or recursive statements.

1. What are Table Variables? What is their scope and where are they created in SQL Server?

It’s a special type of the local variable which helps to store temporary data, and is similar to temp table. Table variables can only be used within one stored procedure and can be created by declare statement.

1. What is the difference between DELETE and TRUNCATE? Which one will have better performance and why?

DELETE and TRUNCATE both can be used to delete data. However, TRUNCATE can be used to delete the entire data of the table without maintaining the integrity of the table. In my view, I think TRUNCATE has better performance since it deletes data and cannot contain WHERE clause.

1. What is Identity column? How does DELETE and TRUNCATE affect it?

Suppose the identifier ends 100. When you use DELETE, although table would be empty, the next inserted record would start with 101. When you use TRUNCATE, the table would be empty and the next inserted record would start with 1.

1. What is difference between “delete from table\_name” and “truncate table table\_name”?

DELETE table only delete all data. However, TRUNCATE table is not only delete data, but also reset identifier.