Assignment Day3 –SQL: Comprehensive practice

# Answer following questions

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?

If using subquery on different tables then join can be more efficient. Join return rows while subquery return row set.

1. What is CTE and when to use it?

Common table expression is for creating recursive query.

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

Table variable is a data type which is created to be used in the scope of SQL batch, stored procedure and function.

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

Truncate is faster it doesn’t trigger. Truncate uses less transaction log.

Truncate is also limited in the way that for tables referenced by foreign key, truncate will not be valid.

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

It is the column containing data generated by the database. Truncate updates the identity value while delete does not.

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

Delete trigger the transaction log so it can rollback while truncate cannot.

1. How do you remove the duplicates record of a table?

Use delete/truncate with CTE recursively delete duplicates.