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?

I like join, because join usually fast the subqueries

1. What is CTE and when to use it?

Cte is Common Table Expressions Cont. we can use it to write recursive query

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

A table variable is a data type that can be used within a Transact-SQL batch, stored procedure, or function—and is created and defined similarly to a table, only with a strictly defined lifetime scope.

It created in the tempdb

4. What is the difference between DELETE and TRUNCATE? Which one will have better

performance and why?

Truncate is faster compared to delete as it makes less use of the transaction log.

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

An identity column is an integer or bigint column whose values are automatically generated from a system-defined sequence. An identity column provides a way to automatically generate a unique numeric value for each row in a table.

Truncate reseeds identity values, whereas delete doesn't

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

table\_name”?

Truncate do not scan every row before removing but delete will scan. Therefore, delete can use with where.

Truncate can only remove all row in table