System Tables

1. Learn about system tables to retrieve schema, table information, column information, databases, and others
2. <https://docs.microsoft.com/en-us/sql/relational-databases/system-catalog-views/object-catalog-views-transact-sql?view=sql-server-ver15>

System Information Schema Views

1. Learn about obtaining metadata from SQL Server
2. <https://docs.microsoft.com/en-us/sql/relational-databases/system-information-schema-views/system-information-schema-views-transact-sql?view=sql-server-ver15>

Question

Write a SQL Query to generate following results

1. Select Query that will return schema\_name, along with all tables present in that schema

|  |  |
| --- | --- |
| schema\_name | table\_name |
| raa | submission, submission\_audit |
| etl | md\_customer,md\_test |

1. Select query that will return schema\_name, table\_name and comma separated list of fields present in that table

|  |  |  |
| --- | --- | --- |
| schema\_name | table\_name | column\_name |
| raa | submission | id,col1,col2 |
| raa | submission\_audit | id, col3,col4 |

1. Select query that will return schema\_name, table\_name and comma separated list of primary key present in that table

|  |  |  |
| --- | --- | --- |
| schema\_name | table\_name | primary\_key\_fields |
| raa | submission | id |
| raa | submission\_audit | id |

1. Select query that will generate truncate query for each tables in a schema

|  |
| --- |
| truncate table raa.submission; |
| truncate table raa.submission\_audit; |

1. Select query that will generate select query for each tables in a schema

|  |  |  |
| --- | --- | --- |
| schema\_name | table\_name | query |
| raa | submission | select id,col1,col2,col3 from raa.submission |

1. Create stored procedure to get the following metadata and information
   1. schema, table information, column information, databases
   2. details of each of the tables in each database which includes- schema name, table size (space used), no. of rows
   3. table usage, last accessed date/time