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| **DAY** | **TOPIC** |
| **Day – 1** | MS SQL Server Type |
| Client Server Architecture |
| Server name/IP Address and Instance |
| Authentication Type |
| Database & Schema Overview |
| System Database & User database |
| .mdf, and .ldf file |
| SQL Statement Type |
| DDL Statement (Create, Alter, Drop, Truncate) |
| DML Statement (Insert, Update, Delete) |
| DQL Statement (Select) |
| DCL Statement (Create user, grant access, revoke access) |
| TCL Statement (Begin transaction , commit, rollback) |
| SQL Datatype |
| Where clause |
| Operator |
| Keywords : in, not in, between, not between, is null, is not null |
| **Day – 2** | Wild card/patter matching : %, \_- need refresher |
| Case when/Case statement |
| Order By - Ascending, Descending |
| Group By |
| Aggregate Function |
| Having |
| Keyword: Top, Distinct |
| Constraints & Integrity |
| Primary key |
| Foreign key |
| Unique |
| Not null |
| Null |
| Default |
| Check |
| Identity column |
| Composite key |
| **Day – 3** | Index & its type |
| Cluster index |
| Non-cluster index |
| System defined function(Aggregate, Scalar) |
| Mathematic Function |
| Text/String Function |
| Date-time function |
| Type conversion function, and other |
| **Subquery/Nested query** |
| **Union** |
| **Union All** |
| **Day – 4** | **Join and its type** |
| **Inner join/Default join** |
| **Outer join/full outer join** |
| **Left join/left outer join** |
| **Right join/right outer join** |
| **Self-join** |
| **Cross join** |
| Minus/ except |
| Intersect |
| **Day – 5** | View |
| View - SQL Statement support |
| TL-SQL |
| SQL variable declaration |
| Set value |
| Expression |
| If condition |
| Loop |
| **Day – 6** | User defined function |
| Scalar function |
| Tabular function |
| Function - SQL statement support |
| **Day – 7** | Stored Procedure |
| Stored procedure – Parameter |
| In/Out parameter |
| Default value |
| Procedure multiple value/table return |
| **Temp table #** |
| **Temp table ##** |
| **Table variable** |
| **Day – 8** | Trigger & it's type |
| After |
| Instead of/before |
| Trigger Virtual table/magic table |
| Inserted |
| Deleted |
| **XML Parsing** |
| **Day – 9** | **Cursor** |
| **CTE (common type expression)** |
| **Day – 10** | Normalization |
| Performance Monitoring |
| Performance Tuning |
| **Day – 11** | **DBCC Commands** |
| Index reorganize |
| Index rebuild |
| Interview Questions |
| **Day – 12** | Interview Questions |