

## RDBMS - MS SQL Server Training Session Assignments

### Definitions:

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- Inventory Module
  - Social Media APP (e.g. Facebook)
  - Library Management
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### Assignment-I:

**Date & Time: 17/01/2024 between 4:30 p.m. to 5:30 p.m.**

1) Describe 5 differences between RDBMS vs DBMS (which are not covered in training session).

For above all three definitions, do below tasks:

2) Create 3 different database for each definition, and include below things in each database:

- minimum 5 tables.
- minimum 5 columns in each table, which includes 5 different data types and some of columns must include null values.
- Primary Key column with identity in each table.

3) Write DDL for all operations for point #2.

4) R&D

- Write steps on how to change default file location for database (mdf file and ldf file).
- Practical: create one database name "ChangedLocationDB" on different location.

5) Create 1 master table and 1 child table in all the 3 databases above and define relationship (using Primary Key and Foreign Key) between them.

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### Assignment-II:

**Date & Time: 18/01/2024 between 5:00 p.m. to 6:00 p.m.**

6) Inline and Sub Queries Task:

- Write 3 inline queries and 3 sub-queries on all the databases of above definitions.

7) SQL Functions:

7.1) String Functions:

- Mention 15 functions with Name, short description (or say use of it) and a SQL query for it.

7.2) Numeric/Math Functions:

- Mention 15 functions with Name, short description (or say use of it) and a SQL query for it.

7.3) Date Functions:

- Mention 10 functions with Name, short description (or say use of it) and a SQL query for it.

7.4) Advanced Functions:

- Mention 5-7 functions with Name, short description (or say use of it) and a SQL query for it.

7.5) Write queries, which will use 3 functions of above all 4 types each, on minimum 2 tables for all the 3 databases of above Definitions.

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**Assignment Submission Date: 22/01/2024**