RDBMS - MS SQL Server Training Session Assignments

Definitions:
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- Inventory Module
- Social Media APP (e.g. Facebook)
- Library Management

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.

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.

Assignment Submission Date: 22/01/2024