## **ASSIGNMENT 2**

1) (2 Marks) Write a query to list all system databases in SQL Server.

```
-- 1) (2 Marks) List all system databases in SQL Server

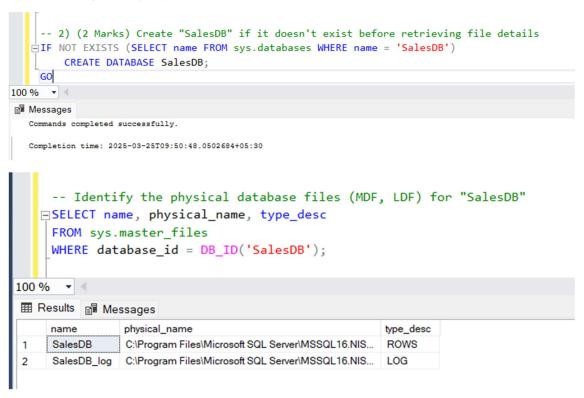
SELECT name FROM sys.databases

WHERE database_id <= 4;

100 % 
Results Messages

name
1 master
2 tempdb
3 model
4 msdb
```

2) (2 Marks) Identify the physical database files (MDF, LDF) of a user-defined database named "SalesDB" using a SQL query.



3) (2 Marks) Create a user-defined database named "InventoryDB" with a primary data file of 5MB and a log file of 2MB.

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* ** X

-- 3) (2 Marks) Create a user-defined database named "InventoryDB" with a primary data file of 5MB and a log file of 2MB

CREATE DATABASE InventoryDB

ON PRIMARY (NAME = 'InventoryDB_Data', FILENAME = 'C:\SQLData\InventoryDB.mdf', SIZE = 5MB)

LOG ON (NAME = 'InventoryDB_Log', FILENAME = 'C:\SQLData\InventoryDB.ldf', SIZE = 2MB);

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```

4) (2 Marks) Rename the database "InventoryDB" to "StockDB" using a SQL query.

```
-- 4) (2 Marks) Rename the database "InventoryDB" to "StockDB"

—ALTER DATABASE InventoryDB MODIFY NAME = StockDB;

100 % 

Messages

The database name 'StockDB' has been set.

Completion time: 2025-03-25T09:54:54.3945534+05:30
```

5) (2 Marks) Drop the database "StockDB" using a SQL query.

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* 

-- 5) (2 Marks) Drop the database "StockDB"

USE master;

IF EXISTS (SELECT name FROM sys.databases WHERE name = 'StockDB')

BEGIN

ALTER DATABASE StockDB SET SINGLE_USER WITH ROLLBACK IMMEDIATE;

DROP DATABASE StockDB;

END

100 % 

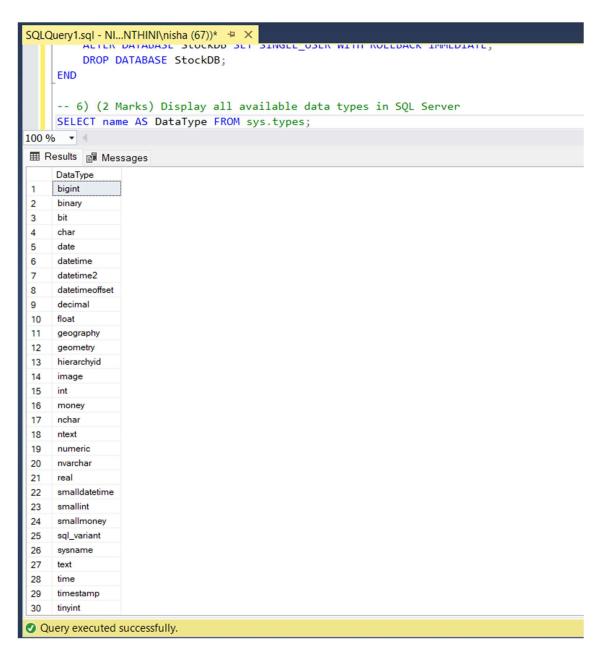
Messages

Nonqualified transactions are being rolled back. Estimated rollback completion: 0%.

Nonqualified transactions are being rolled back. Estimated rollback completion: 100%.

Completion time: 2025-03-25T09:56:56.8486303+05:30
```

6) (2 Marks) Write a query to display all available data types in SQL Server.



7) (2 Marks) Create a table "Products" with the following columns:

ProductID (Integer, Primary Key), ProductName (Variable-length string, max 50 characters, Not Null), Price (Decimal with 2 decimal places), StockQuantity (Integer, Default value 0)

8)(2 Marks) Modify the "Products" table to add a new column Category (VARCHAR(30)).

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* 

-- 8) (2 Marks) Modify the "Products" table to add a new column "Category"

ALTER TABLE Products ADD Category VARCHAR(30);

100 % 

Messages

Commands completed successfully.

Completion time: 2025-03-25T10:00:30.1480939+05:30
```

9)(2 Marks) Rename the table "Products" to "Inventory".

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* 
ALTER TABLE PRODUCTS ADD Category VARCHAR(50);

-- 9) (2 Marks) Rename the "Products" table to "Inventory"

EXEC sp_rename 'Products', 'Inventory';

100 % 

Messages

Caution: Changing any part of an object name could break scripts and stored procedures.

Completion time: 2025-03-25T10:01:02.8648284+05:30
```

10)(2 Marks) Drop the "Inventory" table from the database.

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* ** X

-- 10) (2 Marks) Drop the "Inventory" table

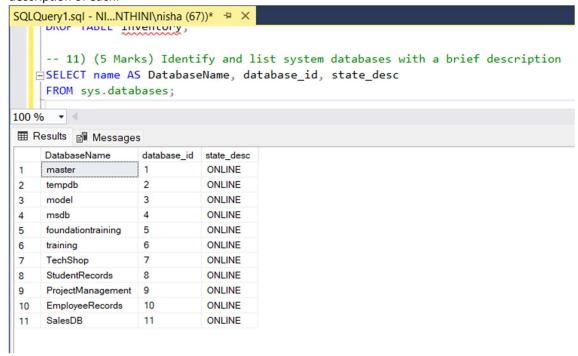
DROP TABLE Inventory;

100 % 
Messages

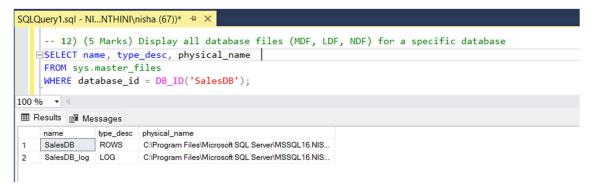
Commands completed successfully.

Completion time: 2025-03-25T10:01:27.2823202+05:30
```

11)(5 Marks) Identify and list the system databases available in SQL Server. Provide a brief description of each.



12)(5 Marks) Write a query to display all database files (MDF, LDF, NDF) for a specific database.



13) (5 Marks) Create a new user-defined database named SalesDB with a primary data file of 10MB and a log file of 5MB.

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* = X

-- 13) (5 Marks) Create "SalesDB" with a 10MB primary file and 5MB log file
IF NOT EXISTS (SELECT name FROM sys.databases WHERE name = 'SalesDB')
CREATE DATABASE SalesDB
ON PRIMARY (NAME = 'SalesDB_Data', FILENAME = 'C:\SQLData\SalesDB.mdf', SIZE = 10MB)
LOG ON (NAME = 'SalesDB_Log', FILENAME = 'C:\SQLData\SalesDB.ldf', SIZE = 5MB);

100 % 

Messages
Commands completed successfully.
Completion time: 2025-03-25T10:04:34.4726091+05:30
```

14)(5 Marks) Rename the database SalesDB to RetailDB using an SQL query.

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* 

GO

-- 14) (5 Marks) Rename the "SalesDB" database to "RetailDB"
ALTER DATABASE SalesDB MODIFY NAME = RetailDB;

100 % 

Messages
The database name 'RetailDB' has been set.

Completion time: 2025-03-25T10:05:03.2537444+05:30
```

15) (5 Marks) Drop the RetailDB database safely, ensuring that no active connections exist before deletion.

```
SQLQuery1.sql - NI...NTHINI\nisha (67))* 

-- 15) (5 Marks) Drop "RetailDB" safely, ensuring no active connections

USE master;

ALTER DATABASE RetailDB SET SINGLE_USER WITH ROLLBACK IMMEDIATE;

DROP DATABASE RetailDB;

100 % 

Messages

Commands completed successfully.

Completion time: 2025-03-25T10:05:36.8999151+05:30
```