

DBMS LAB ASSIGNMENT-2

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1. Show how to Create and Drop Database.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery1.sql - localhost.master (LAPTOP-NDNABGRR\RISHIKESH (59))* - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Project, Tools, Window, and Help. The toolbar has various icons for database management tasks. The Object Explorer on the left shows the connection to "localhost (SQL Server 15.0.2000.5 - LAPTOP-NDNABGRR\RISHIKESH (59))" with nodes for Databases, System Databases, Database Snapshots, Library, Security, Server Objects, Replication, PolyBase, Always On High Availability, Management, Integration Services Catalogs, SQL Server Agent (Agent XPs disabled), and XEvent Profiler. The central pane displays a query window titled "SQLQuery1.sql - lo...RR\RISHIKESH (59)*" containing the SQL command: "CREATE DATABASE Library;". Below the command is a message box stating "Commands completed successfully." and the completion time: "Completion time: 2021-02-13T12:29:32.3107695+05:30".

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2. Show all the Databases are in the system

The screenshot shows the Microsoft SQL Server Management Studio interface. On the left, the Object Explorer pane displays the server configuration for 'localhost (SQL Server 15.0.2000.5 - LAPTOP-NDNABGRR)'. Under the 'Databases' node, there are entries for 'System Databases' and 'Database Snapshots'. On the right, the 'SQLQuery1.sql' query editor window contains the following T-SQL code:

```
CREATE DATABASE Library;
DROP DATABASE Library;
```

Below the query window, the 'Messages' pane shows the execution results:

Commands completed successfully.
Completion time: 2021-02-13T14:01:08.1383465+05:30

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3. Create Table for your Database

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure for 'localhost (SQL Server 15.0.2000.5 - LAPTOP-NDNABGR|RISHIKESH (65))'. The 'Messages' tab in the Results pane displays the output of the following SQL query:

```
SELECT * FROM sys.databases where database_id > 0
```

The results show the following information for each database:

name	database_id	source_database_id	owner_sid	create_date	compatibility_level	collation_name	user_access	user_access_desc	is_read_only	is_auto_close_on	is_tempdb
master	1	NULL	0x01	2003-08-09 13:36:390	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C
tempdb	2	NULL	0x01	2021-02-09 23:03:39:480	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C
model	3	NULL	0x01	2003-04-08 09:13:39:390	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C
msdb	4	NULL	0x01	2019-09-24 14:21:42:270	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C
Library	5	NULL	0x0105000000000005150000001962BEF0E9729A42B1BFBA9...	2021-02-13 14:20:50:720	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C
Hotel	6	NULL	0x0105000000000005150000001962BEF0E9729A42B1BFBA9...	2021-02-13 14:20:50:757	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C
Hospital	7	NULL	0x0105000000000005150000001962BEF0E9729A42B1BFBA9...	2021-02-13 14:22:01:657	150	SQL_Latin1_General_CI_AS	0	MULTI_USER	0	0	C

4. Drop table

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left shows the database structure for 'localhost (SQL Server 15.0.2000.5 - LAPTOP-NDNABGR|RISHIKESH (61))'. The 'Messages' tab in the Results pane displays the output of the following SQL command:

```
CREATE TABLE BOOKS
(
    BOOK_ID INT PRIMARY KEY,
    BOOK_NAME VARCHAR(45) NOT NULL,
    AUTHOR_NAME VARCHAR(45) NOT NULL,
    PRICE INT NOT NULL,
    SUBJECT_CODE VARCHAR(45),
    NO_OF_BOOKS INT,
    LOCATION VARCHAR(45) NOT NULL
)
```

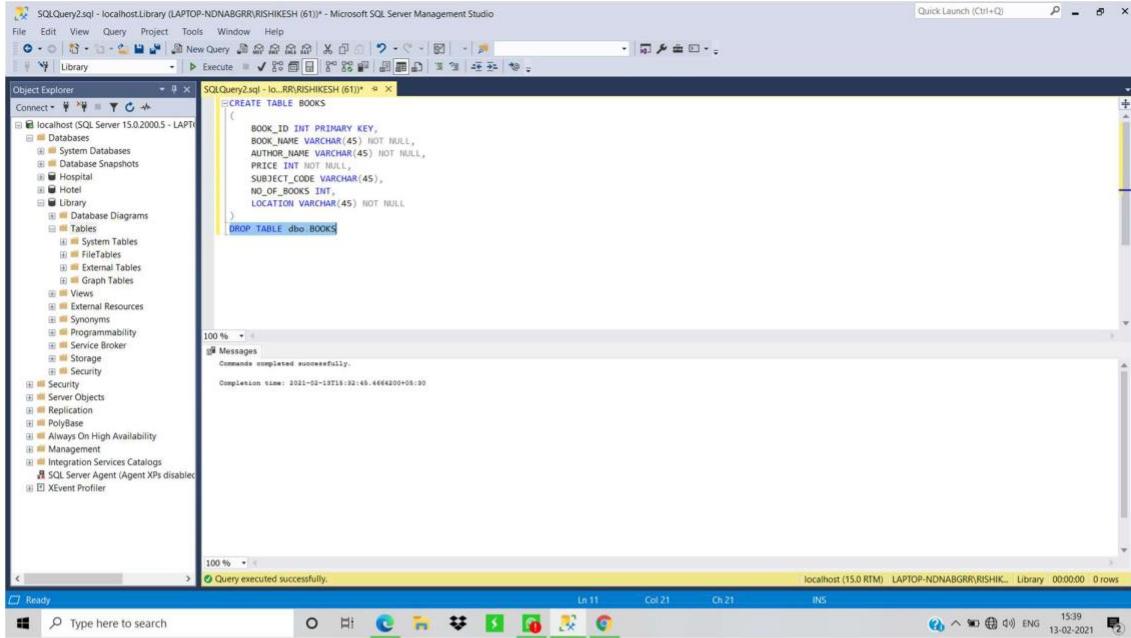
The message pane shows the command completed successfully with a completion time of 2021-02-13T15:29:24.223Z.

At the bottom of the interface, a status bar indicates 'localhost (15.0 RTM) LAPTOP-NDNABGR|RISHIK... Library 00:00:00 0 rows'.

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5. Show how to check the schema of the tables

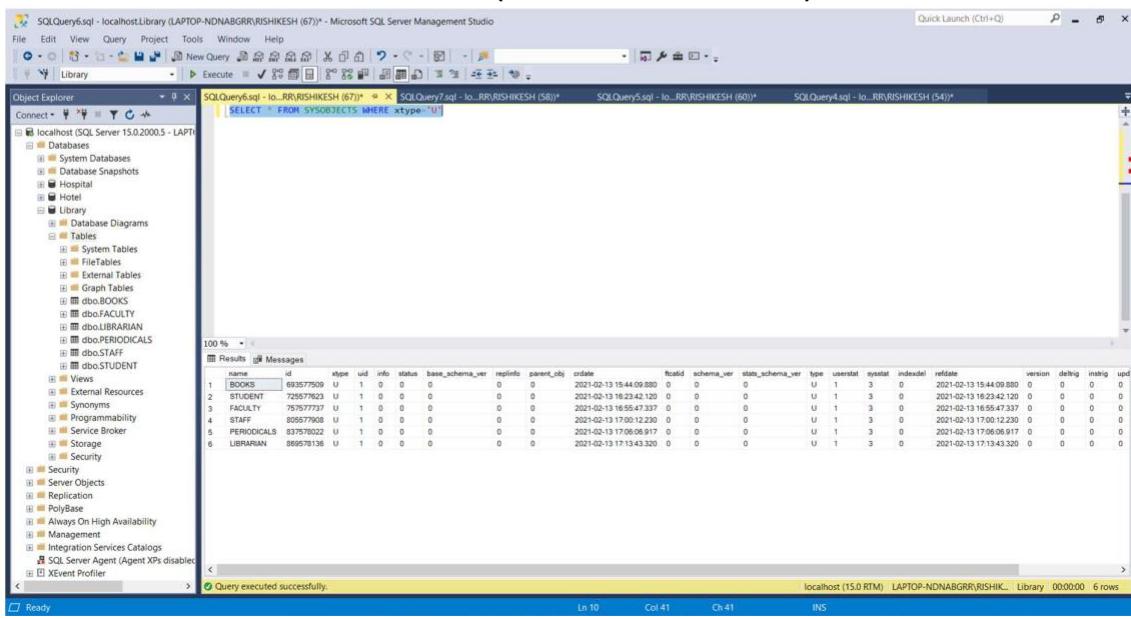


The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'localhost SQL Server 15.0.2000.5 - LAPTH' is selected. In the center pane, a query window titled 'SQLQuery2.sql' contains the following T-SQL code:

```
CREATE TABLE BOOKS
(
    BOOK_ID INT PRIMARY KEY,
    BOOK_NAME VARCHAR(45) NOT NULL,
    AUTHOR_NAME VARCHAR(45) NOT NULL,
    PRICE INT NOT NULL,
    SUBJECT_CODE VARCHAR(45),
    NO_OF_BOOKS INT,
    LOCATION VARCHAR(45) NOT NULL
)
DROP TABLE dbo.BOOKS
```

The status bar at the bottom indicates 'Query executed successfully.' and 'Completion time: 2021-02-13T18:32:48.4464200+05:30'. The bottom right corner shows the date and time as '13-02-2021 15:39'.

6. Show all the tables from the database (This is not done in class.)



The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'localhost SQL Server 15.0.2000.5 - LAPTH' is selected. In the center pane, a query window titled 'SQLQuery6.sql' contains the following T-SQL code:

```
SELECT * FROM sys.objects WHERE xtype='U'
```

The results pane displays a table with 6 rows, listing various tables in the database:

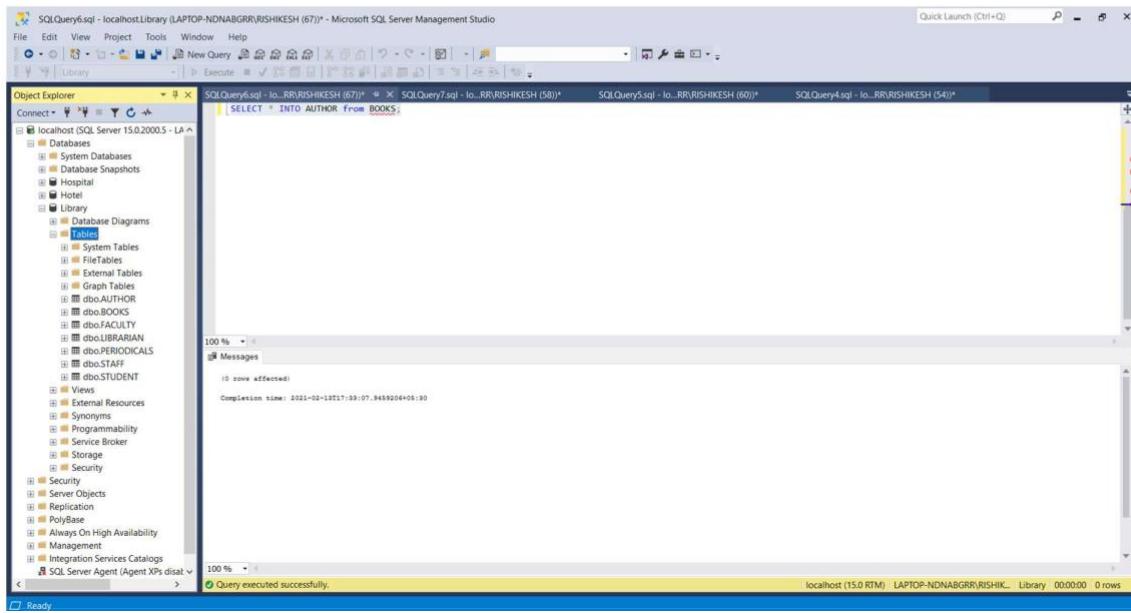
name	id	type	uid	info	status	base_schema_ver	replinfo	parent_obj	create_date	fcid	schema_ver	stat_schema_ver	type	userstat	systemat	indexed	refdate	version	defrg	instmg	upd
BOOKS	693577509	U	1	0	0	0	0	0	2021-02-13 15:40:00.980	0	0	0	U	1	3	0	2021-02-13 15:40:00.980	0	0	0	
STUDENT	750577502	U	1	0	0	0	0	0	2021-02-13 16:55:47.320	0	0	0	U	1	3	0	2021-02-13 16:55:47.320	0	0	0	
ACADEMY	855577507	U	1	0	0	0	0	0	2021-02-13 16:55:47.337	0	0	0	U	1	3	0	2021-02-13 16:55:47.337	0	0	0	
STAFF	855577508	U	1	0	0	0	0	0	2021-02-13 17:00:12.230	0	0	0	U	1	3	0	2021-02-13 17:00:12.230	0	0	0	
PERIODICALS	837578022	U	1	0	0	0	0	0	2021-02-13 17:09:06.917	0	0	0	U	1	3	0	2021-02-13 17:09:06.917	0	0	0	
LIBRARIAN	869578136	U	1	0	0	0	0	0	2021-02-13 17:13:43.320	0	0	0	U	1	3	0	2021-02-13 17:13:43.320	0	0	0	

The status bar at the bottom indicates 'Query executed successfully.' and 'Completion time: 2021-02-13T18:32:48.4464200+05:30'. The bottom right corner shows the date and time as '13-02-2021 15:39'.

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7. Create Table using Select Statement (I haven't showed you this. I want you to try, it is very simple you should not have any problem).



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8. Create a table which has derived attribute. (Example can be Age is a derived attribute from Date of Birth. You should try this as well).

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, under the 'Tables' node of the 'localhost SQL Server 15.0.2000.5 - Library' database, a new table named 'BOOK_RECORD' is being created. The script in the query editor is:

```
CREATE TABLE BOOK_RECORD
(
    BOOK_ID INT PRIMARY KEY NOT NULL,
    ISSUED_DATE VARCHAR(15) NOT NULL,
    EXPIRY_DATE VARCHAR(15) NOT NULL,
    FINE AS DATEDIFF(YEAR, EXPIRY_DATE, GETDATE())
)
```

The 'Messages' pane indicates that the command was completed successfully at 13:21:42 on 13-02-2021. The status bar at the bottom right shows the date and time as 13-02-2021 17:43.