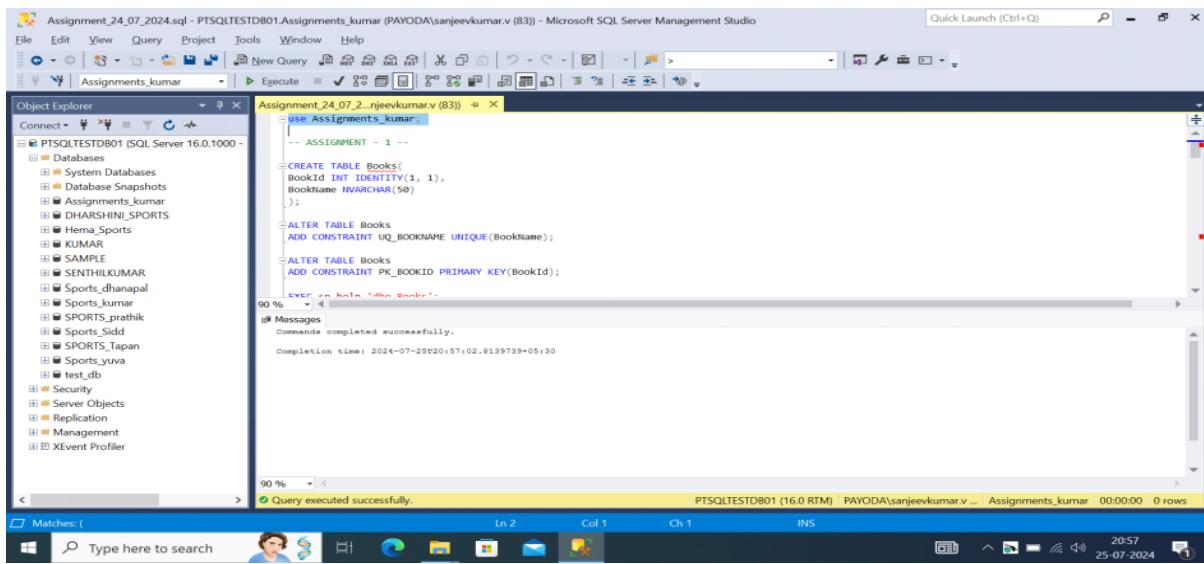


1 – DAY – TASK (24-07-2024)

TASK - 1

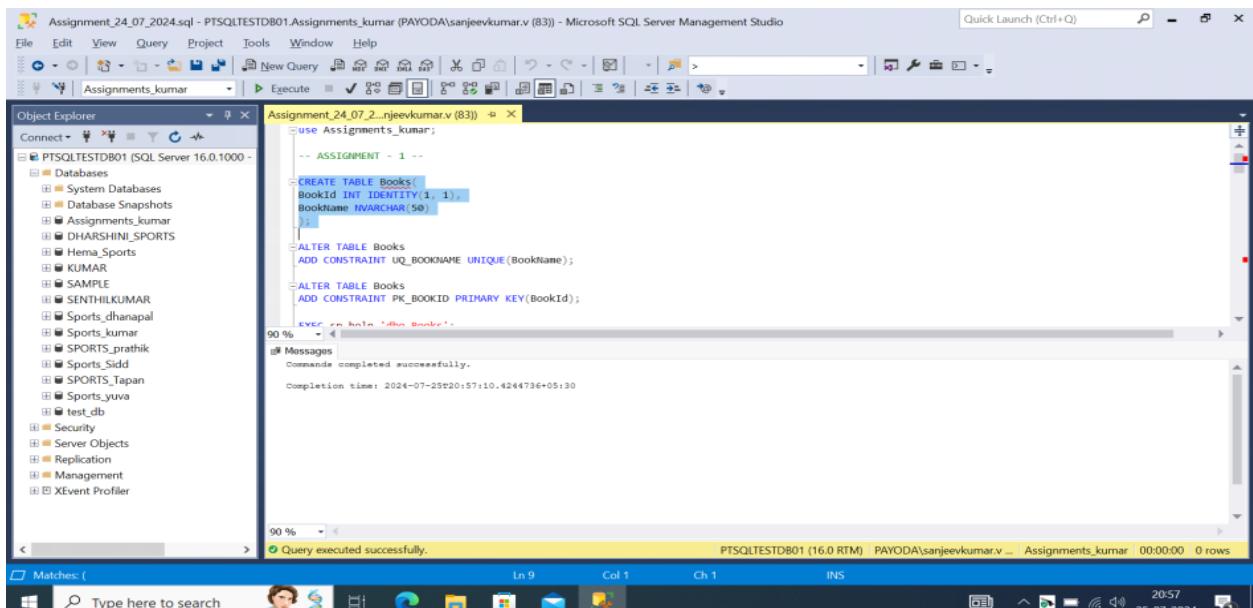
1. Create Books table with BookID, Book Name, Author table with AuthorID, Author Name.
2. Create Junction table for Books and Authors.



The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists databases such as PSQLTESTDB01, SAMPLE, and various sports-related databases. The central pane displays a query window titled 'Assignment_24_07_2...njeevkumar.v (83)'. The query code creates a 'Books' table with columns BookId (INT IDENTITY(1, 1)) and BookName (NVARCHAR(50)). It then adds a constraint UQ_BOOKNAME to ensure uniqueness of BookName. Finally, it alters the table to add a primary key constraint PK_BOOKID on BookId. The status bar at the bottom indicates 'Query executed successfully.' and provides system information like completion time and rows affected.

```
-- ASSIGNMENT - 1 --
CREATE TABLE Books(
BookId INT IDENTITY(1, 1),
BookName NVARCHAR(50)
);
ALTER TABLE Books
ADD CONSTRAINT UQ_BOOKNAME UNIQUE(BookName);
ALTER TABLE Books
ADD CONSTRAINT PK_BOOKID PRIMARY KEY(BookId);
EXEC sp_help 'dbo.Books';
90 %
# Messages
Commands completed successfully.
Completion time: 2024-07-25t20:57:02.8139739+05:30
```

-> use database



This screenshot is identical to the one above, showing the creation of the 'Books' table in the 'Assignments_kumar' database. The process involves creating the table with BookId and BookName columns, adding a unique constraint, and then creating a primary key constraint on BookId. The status bar at the bottom shows the command was completed successfully.

```
-- ASSIGNMENT - 1 --
CREATE TABLE Books(
BookId INT IDENTITY(1, 1),
BookName NVARCHAR(50)
);
ALTER TABLE Books
ADD CONSTRAINT UQ_BOOKNAME UNIQUE(BookName);
ALTER TABLE Books
ADD CONSTRAINT PK_BOOKID PRIMARY KEY(BookId);
EXEC sp_help 'dbo.Books';
90 %
# Messages
Commands completed successfully.
Completion time: 2024-07-25t20:57:10.4244736+05:30
```

-> Create a table with BookID, Book Name.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar Assignment_24_07_2..._njeevkumar.v (83) Quick Launch (Ctrl+Q)
Object Explorer
Connect Databases
PTSQLTESTDB01 (SQL Server 16.0.1000)
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler
Assignment_24_07_2..._njeevkumar.v (83) ->
USE Assignments_kumar;
-- ASSIGNMENT - 1 --
CREATE TABLE Books(
BookId INT IDENTITY(1, 1),
BookName NVARCHAR(50)
);
ALTER TABLE Books
ADD CONSTRAINT UQ_BOOKNAME UNIQUE(BookName);
ALTER TABLE Books
ADD CONSTRAINT PK_BOOKID PRIMARY KEY(BookId);
EXEC sp_help 'dbo.Books';
Messages
Commands completed successfully.
Completion time: 2024-07-25t20:57:20.8693739+05:30
90 %
90 % > Matches: ( Type here to search 2057 25-07-2024
Ln 15 Col 1 Ch 1 INS
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

```

-> add unique and primary keys.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar Assignment_24_07_2..._njeevkumar.v (83) Quick Launch (Ctrl+Q)
Object Explorer
Connect Databases
PTSQLTESTDB01 (SQL Server 16.0.1000)
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler
Assignment_24_07_2..._njeevkumar.v (83) ->
ADD CONSTRAINT UQ_BOOKNAME UNIQUE(BookName);
ALTER TABLE Books
ADD CONSTRAINT PK_BOOKID PRIMARY KEY(BookId);
EXEC sp_help 'dbo.Books';
Results > Messages
Name Owner Type Created_datetime
1 Books dbo user table 2024-07-25 08:27:11.170
Column_name Type Computed Length Prec Scale Nullable TrimTrailingBlanks FixedLenNullInSource Collation
1 BookId int no 4 10 0 no (n/a) (n/a) NULL
2 BookName nvarchar no 100 yes (n/a) (n/a) SQL_Latin1_General_CI_AS
Identity_Seed Increment Not For Replication
1 BookId 1 1 0
RowGuidCol
1 No rowguidcol column defined.
Data_located_on_Flags
1 PRIMARY
90 %
90 % > Matches: ( Type here to search 2057 25-07-2024
Ln 17 Col 1 Ch 1 INS
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 10 rows

```

-> display about table

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Connect > Assignments_kumar > Execute > New Query > ALTER TABLE Books > ADD CONSTRAINT PK_BOOKID PRIMARY KEY(BookId); > EXEC sp_help 'dbo.Books'; > INSERT INTO Books (BookName) VALUES ('SWAMY VIVEKANANDA'), ('CHE GUEVARA'), ('SANJEEV KUMAR'), ('PAVAN KUMAR'); > SELECT * FROM Books; > CREATE TABLE Author( > AuthorId INT IDENTITY(1, 1), > AuthorName Nvarchar(50), > CONSTRAINT PK_AUTHORID PRIMARY KEY(AuthorId)); > Messages
90 % > 4 rows affected
Completion time: 2024-07-25t20:57:41.6287837+05:30
PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows
Matches: ( Type here to search 20:57 25-07-2024
```

-> inserting values.

BookId	BookName
1	CHE GUEVARA
2	PAVAN KUMAR
3	SANJEEV KUMAR
4	SWAMY VIVEKANANDA

PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 4 rows

-> displaying table with rows and columns.

```

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar Object Explorer
PTSQLTESTDB01 (SQL Server 16.0.1000 -)
Databases
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanpal
Sports_kumar
Sports_kumar_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler

```

```

Assignment_24_07_2...njeevkumar.v (83) - X
INSERT INTO Books (BookName) VALUES
('SWAMY VIVEKANANDA'), ('CHE GUEVARA'), ('SANDEEP KUMAR'), ('PAVAN KUMAR');

SELECT * FROM Books;

CREATE TABLE Author(
AuthorId INT IDENTITY(1, 1),
AuthorName Nvarchar(50),
CONSTRAINT PK_AUTHORID PRIMARY KEY(AuthorId)
);

EXEC sp_help 'dbo.Author';

INSERT INTO Author (AuthorName) VALUES
('SANDEEP'), ('RAM'), ('HARI'), ('PRIYA');

90 % 4 90 %
Messages
Commands completed successfully.

Completion time: 2024-07-25t20:57:58.9287538+05:30

```

Query executed successfully.

-> create author table with columns are authord and author name.

```

Assignment_24_07_2...njeevkumar.v (83) - X
INSERT INTO Books (BookName) VALUES
('SWAMY VIVEKANANDA'), ('CHE GUEVARA'), ('SANDEEP KUMAR'), ('PAVAN KUMAR');

SELECT * FROM Books;

CREATE TABLE Author(
AuthorId INT IDENTITY(1, 1),
AuthorName Nvarchar(50),
CONSTRAINT PK_AUTHORID PRIMARY KEY(AuthorId)
);

EXEC sp_help 'dbo.Author';

INSERT INTO Author (AuthorName) VALUES
('SANDEEP'), ('RAM'), ('HARI'), ('PRIYA');

90 % 4 90 %
Results of Messages
Name Owner Type Created_datetime
1 Author dbo user table 2024-07-25 08:27:59.687
Column_name Type Computed Length Prec Scale Nullable TrimTrailingBlanks FixedLenNullInSource Collation
1 AuthorId int no 4 10 0 no (n/a) (n/a) NULL
2 AuthorName nvarchar no 100 yes (n/a) (n/a) SQL_Latin1_General_CI_AS
Identity Seed Increment Not For Replication
1 AuthorId 1 1 0
RowGuidCol
1 No rowguidcol column defined.
Data_located_on_flegroup
1 PRIMARY

```

Query executed successfully.

-> displaying about table.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar
Assignment_24_07_2..._njeevkumar.v (83) X
Object Explorer
Connect Databases
PTSQLTESTDB01 (SQL Server 16.0.1000)
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEvent Profiler
Assignment_24_07_2..._njeevkumar.v (83) X
SELECT * FROM Author;
CREATE TABLE Author(
AuthorId INT IDENTITY(1, 1),
AuthorName Nvarchar(50),
CONSTRAINT PK_AUTHORID PRIMARY KEY(AuthorId)
);

EXEC sp_help 'dbo.Author';

INSERT INTO Author (AuthorName) VALUES
('SANDEEV'), ('RAM'), ('HARI'), ('PRIYA');

SELECT * FROM Author;

UPDATE Author
90 %
Completion time: 2024-07-25t20:58:11.7188321+05:30
Messages
(4 rows affected)

Query executed successfully.
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows
LN 33 Col 1 Ch 1 INS
Matches: ( Type here to search 2058 25-07-2024

```

-> inserting values.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar
Assignment_24_07_2..._njeevkumar.v (83) X
Object Explorer
Connect Databases
PTSQLTESTDB01 (SQL Server 16.0.1000)
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEvent Profiler
Assignment_24_07_2..._njeevkumar.v (83) X
EXEC sp_help 'dbo.Author';

INSERT INTO Author (AuthorName) VALUES
('SANDEEV'), ('RAM'), ('HARI'), ('PRIYA');

SELECT * FROM Author;

UPDATE Author
SET AuthorName = 'RAM KUMAR' WHERE AuthorId = 2;

CREATE TABLE Junction(
BookId INT,
AuthorId INT,
CONSTRAINT CP_JUNCTION PRIMARY KEY(BookId, AuthorId)
);
Results Messages
AuthorId AuthorName
1 SANDEEV
2 RAM
3 HARI
4 PRIYA
90 %
Completion time: 2024-07-25t20:58:11.7188321+05:30
Query executed successfully.
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 4 rows
LN 35 Col 1 Ch 1 INS
Matches: ( Type here to search 2058 25-07-2024

```

-> selecting all rows in a author table.

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
```

```
File Edit View Query Project Tools Window Help
```

```
Object Explorer
```

```
Connect > XPTSQLTESTDB01 (SQL Server 16.0.1000 -) | Databases | System Databases | Database Snapshots | Assignments_kumar | DHARSHINI_SPORTS | Hema_Sports | KUMAR | SAMPLE | SENTHILKUMAR | Sports_dhanapal | Sports_kumar | SPORTS_prathik | Sports_Sidd | SPORTS_Tapan | Sports_yuva | test_db | Security | Server Objects | Replication | Management | XEvent Profiler
```

```
Assignment_24_07_2...njeevkumar.v (83) ->
```

```
EXEC sp_help 'dbo.Author';  
INSERT INTO Author (AuthorName) VALUES  
('SANJEEV'), ('RAM'), ('HARI'), ('PRIYA');  
SELECT * FROM Author;  
UPDATE Author  
SET AuthorName = 'RAM KUMAR' WHERE AuthorId = 2;  
CREATE TABLE Junction(  
BookId INT,  
AuthorId INT,  
CONSTRAINT CP_JUNCTION PRIMARY KEY(BookId, AuthorId))
```

```
90 % < > Messages (1 row affected)  
Completion time: 2024-07-25T20:58:24.6558209+05:30
```

```
Query executed successfully.
```

```
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows
```

```
Matches: ( Type here to search 2058 25-07-2024
```

-> update the authorName "RAM" to "RAM KUMAR".

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
```

```
File Edit View Query Project Tools Window Help
```

```
Object Explorer
```

```
Connect > XPTSQLTESTDB01 (SQL Server 16.0.1000 -) | Databases | System Databases | Database Snapshots | Assignments_kumar | DHARSHINI_SPORTS | Hema_Sports | KUMAR | SAMPLE | SENTHILKUMAR | Sports_dhanapal | Sports_kumar | SPORTS_prathik | Sports_Sidd | SPORTS_Tapan | Sports_yuva | test_db | Security | Server Objects | Replication | Management | XEvent Profiler
```

```
Assignment_24_07_2...njeevkumar.v (83) ->
```

```
CALL sp_help 'dbo.Author';  
INSERT INTO Author (AuthorName) VALUES  
('SANJEEV'), ('RAM'), ('HARI'), ('PRIYA');  
SELECT * FROM Author;  
UPDATE Author  
SET AuthorName = 'RAM KUMAR' WHERE AuthorId = 2;  
CREATE TABLE Junction(  
BookId INT,  
AuthorId INT,  
CONSTRAINT CP_JUNCTION PRIMARY KEY(BookId, AuthorId))
```

```
90 % < > Messages Commands completed successfully.  
Completion time: 2024-07-25T20:58:30.4165495+05:30
```

```
Query executed successfully.
```

```
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows
```

```
Matches: ( Type here to search 2058 25-07-2024
```

-> create the junction table.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

ALTER TABLE Junction
ADD CONSTRAINT FK_BOOKID FOREIGN KEY (BookId) REFERENCES Books(BookId),
CONSTRAINT FK_AUTHORID FOREIGN KEY (AuthorId) REFERENCES Author(AuthorId);

EXEC sp_help 'dbo.Junction';

INSERT INTO Junction (BookId, AuthorId)
SELECT b.BookId, a.AuthorId FROM Books b CROSS JOIN Author a;

INSERT INTO Junction VALUES
((SELECT BookId FROM Books WHERE BookName = 'SWAMY VI VIVEKANANDA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'SANJEEV')),
((SELECT BookId FROM Books WHERE BookName = 'CHE GUEVARA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'RAM KUMAR'));

```

90 %

Messages

Commands completed successfully.

Completion time: 2024-07-25t20:58:39.5989439+05:30

Query executed successfully.

PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

Matches: (

Type here to search

Ln 49 Col 1 Ch 1 INS

2058 25-07-2024

-> add foreign keys book id and author id.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

ALTER TABLE Junction
ADD CONSTRAINT FK_BOOKID FOREIGN KEY (BookId) REFERENCES Books(BookId),
CONSTRAINT FK_AUTHORID FOREIGN KEY (AuthorId) REFERENCES Author(AuthorId);

EXEC sp_help 'dbo.Junction';

INSERT INTO Junction (BookId, AuthorId)
SELECT b.BookId, a.AuthorId FROM Books b CROSS JOIN Author a;

INSERT INTO Junction VALUES
((SELECT BookId FROM Books WHERE BookName = 'SWAMY VI VIVEKANANDA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'SANJEEV')),
((SELECT BookId FROM Books WHERE BookName = 'CHE GUEVARA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'RAM KUMAR'));

```

90 %

Results

Messages

Name	Owner	Type	Created_datetime
Junction	dbo	user table	2024-07-25 08:28:31.187

Column_name	Type	Computed	Length	Prec	Scale	Nutable	TrimTrailingBlanks	FixedLenNullSource	Collation
BookId	int	no	4	10	0	no	(n/a)	(n/a)	NULL
AuthorId	int	no	4	10	0	no	(n/a)	(n/a)	NULL

Identity	Seed	Increment	Not For Replication
No identity column defined.	NULL	NULL	NULL

RowGuidCol
No rowguidcol column defined.

Data_located_on_filegroup
PRIMARY

Query executed successfully.

PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 12 rows

Matches: (

Type here to search

Ln 51 Col 1 Ch 1 INS

2058 25-07-2024

-> displaying about table.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

Object Explorer
File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar
Assignment_24_07_2...njeevkumar.v (83) X
ALTER TABLE Junction
ADD CONSTRAINT FK_BOOKID FOREIGN KEY (BookId) REFERENCES Books(BookId),
CONSTRAINT FK_AUTHORID FOREIGN KEY (AuthorId) REFERENCES Author(AuthorId);

EXEC sp_help 'dbo.Junction';

INSERT INTO Junction (BookId, AuthorId)
SELECT b.BookId, a.AuthorId FROM Books b CROSS JOIN Author a;

INSERT INTO Junction VALUES
((SELECT BookId FROM Books WHERE BookName = 'SWAMY VIKEVAKANDA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'SANJEEV')),
((SELECT BookId FROM Books WHERE BookName = 'CHE GUEVARA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'RAM KUMAR'));
```

(16 rows affected)

Completion time: 2024-07-25t20:58:51.8800089+05:30

Messages

Query executed successfully.

PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

Matches: (Type here to search 2058 25-07-2024

-> inserting values.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```

Object Explorer
File Edit View Query Project Tools Window Help
New Query Execute
Assignments_kumar
Assignment_24_07_2...njeevkumar.v (83)* X
ALTER TABLE Junction
ADD CONSTRAINT FK_BOOKID FOREIGN KEY (BookId) REFERENCES Books(BookId),
CONSTRAINT FK_AUTHORID FOREIGN KEY (AuthorId) REFERENCES Author(AuthorId);

EXEC sp_help 'dbo.Junction';

INSERT INTO Junction (BookId, AuthorId)
SELECT b.BookId, a.AuthorId FROM Books b CROSS JOIN Author a;

SELECT * FROM Junction;
```

RESULTS

BookId	AuthorId
1	1
2	1
3	2
4	3
5	4
6	1
7	2
8	3
9	4
10	1
11	2
12	3
13	4

Messages

Query executed successfully.

PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 16 rows

Matches: (Type here to search 2059 25-07-2024

-> select junction table displaying all rows.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```
EXEC sp_help 'dbo.Junction';

INSERT INTO Junction (BookId, AuthorId)
SELECT b.BookId, a.AuthorId FROM Books b CROSS JOIN Author a;

SELECT * FROM Junction;

TRUNCATE TABLE Junction;
```

Messages

Commands completed successfully.

Completion time: 2024-07-25t21:00:17.5781614+05:30

Query executed successfully.

-> deleting all rows.

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio

```
INSERT INTO Junction (BookId, AuthorId)
SELECT b.BookId, a.AuthorId FROM Books b CROSS JOIN Author a;

SELECT * FROM Junction;

TRUNCATE TABLE Junction;

INSERT INTO Junction VALUES
((SELECT BookId FROM Books WHERE BookName = 'SWAMI VIVEKANANDA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'SANJEEV')), 
((SELECT BookId FROM Books WHERE BookName = 'CHE GUEVARA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'RAM KUMAR')), 
((SELECT BookId FROM Books WHERE BookName = 'SANJEEV KUMAR'), (SELECT AuthorId FROM Author WHERE AuthorName = 'HARI')), 
((SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR'), (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA')));

DELETE FROM Junction
WHERE BookId = (SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR')
```

Messages

(4 rows affected)

Completion time: 2024-07-25t21:00:23.8109261+05:30

Query executed successfully.

-> inserting values

```

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Connect > x Databases
PTSQLTESTDB01 (SQL Server 16.0.1000 -)
Databases
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler
Assignment_24_07_2...njeevkumar.v (83)*
INSERT INTO Junction VALUES
((SELECT BookId FROM Books WHERE BookName = 'SWAMY VIVEKANANDA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'SANJEEV')),
((SELECT BookId FROM Books WHERE BookName = 'CHE GUEVARA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'RAM KUMAR')),
((SELECT BookId FROM Books WHERE BookName = 'SANJEEV KUMAR'), (SELECT AuthorId FROM Author WHERE AuthorName = 'HARI')),
((SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR'), (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA')));

DELETE FROM Junction
WHERE BookId = (SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR')
AND AuthorId = (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA');

SELECT * FROM Junction;

TRUNCATE TABLE Junction;

DROP TABLE Junction;
90 %
Messages
(1 row affected)
Completion time: 2024-07-25T21:00:38.7331064+05:30

```

Query executed successfully.

-> deleting particular row.

```

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Connect > x Databases
PTSQLTESTDB01 (SQL Server 16.0.1000 -)
Databases
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler
Assignment_24_07_2...njeevkumar.v (83)*
INSERT INTO Junction VALUES
((SELECT BookId FROM Books WHERE BookName = 'SWAMY VIVEKANANDA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'SANJEEV')),
((SELECT BookId FROM Books WHERE BookName = 'CHE GUEVARA'), (SELECT AuthorId FROM Author WHERE AuthorName = 'RAM KUMAR')),
((SELECT BookId FROM Books WHERE BookName = 'SANJEEV KUMAR'), (SELECT AuthorId FROM Author WHERE AuthorName = 'HARI')),
((SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR'), (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA')));

DELETE FROM Junction
WHERE BookId = (SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR')
AND AuthorId = (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA');

SELECT * FROM Junction;

TRUNCATE TABLE Junction;

DROP TABLE Junction;
90 %
Results Messages
BookId AuthorId
1 1
2 2
3 3

```

Query executed successfully.

-> select all rows in the junction table.

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Assignment_24_07_2...njeevkumar.v (83)*
Assignment_24_07_2...njeevkumar.v (83)*
SELECT * FROM Junction;
TRUNCATE TABLE Junction;
DROP TABLE Junction;
90 %
Messages
Commands completed successfully.
Completion time: 2024-07-25t21:00:58.6977517+05:30
PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows
Ready Type here to search 21:01 25-07-2024
```

-> truncate junction table.

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Assignment_24_07_2...njeevkumar.v (83)*
Assignment_24_07_2...njeevkumar.v (83)*
DELETE FROM Junction
WHERE BookId = (SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR')
AND AuthorId = (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA');

SELECT * FROM Junction;
TRUNCATE TABLE Junction;
DROP TABLE Junction;
TRUNCATE TABLE Books;
DROP TABLE Books;
TRUNCATE TABLE Author;
90 %
Messages
Commands completed successfully.
Completion time: 2024-07-25t21:01:05.8252019+05:30
PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows
Ready Type here to search 21:01 25-07-2024
```

-> drop the junction table.

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
```

File Edit View Query Project Tools Window Help

Assignments_kumar

```
Assignment_24_07_2...njeevkumar.v (83)*
```

```
DELETE FROM Junction
WHERE BookId = (SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR')
AND AuthorId = (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA');

SELECT * FROM Junction;

TRUNCATE TABLE Junction;

DROP TABLE Junction;

TRUNCATE TABLE Books;

DROP TABLE Books;

TRUNCATE TABLE Author;
```

90 %

Messages

Commands completed successfully.

Completion time: 2024-07-25T21:01:10.0514276+05:30

Query executed successfully.

PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

Ready Type here to search 21:01 25-07-2024

-> deleting/truncate books table.

```
Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
```

File Edit View Query Project Tools Window Help

Assignments_kumar

```
Assignment_24_07_2...njeevkumar.v (83)*
```

```
DELETE FROM Junction
WHERE BookId = (SELECT BookId FROM Books WHERE BookName = 'PAVAN KUMAR')
AND AuthorId = (SELECT AuthorId FROM Author WHERE AuthorName = 'PRIYA');

SELECT * FROM Junction;

TRUNCATE TABLE Junction;

DROP TABLE Junction;

TRUNCATE TABLE Books;

DROP TABLE Books;

TRUNCATE TABLE Author;
```

90 %

Messages

Commands completed successfully.

Completion time: 2024-07-25T21:01:16.5281456+05:30

Query executed successfully.

PTSQLESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

Ready Type here to search 21:01 25-07-2024

-> drop the Books table.

```

Assignment_24_07_2...njeevkumar.v (83)* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Connect Assignments_kumar
PTSQLTESTDB01 (SQL Server 16.0.1000 -)
Databases
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler
90 %
Messages
Commands completed successfully.
Completion time: 2024-07-25T21:01:24.7391680+05:30
90 %
Ready Type here to search 21:01 25-07-2024
Ln 80 Col 1 Ch 1 INS
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

```

-> truncate/deleting all rows in author table.

```

Assignment_24_07_2...njeevkumar.v (83)* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
Object Explorer
Connect Assignments_kumar
PTSQLTESTDB01 (SQL Server 16.0.1000 -)
Databases
System Databases
Database Snapshots
Assignments_kumar
DHARSHINI_SPORTS
Hema_Sports
KUMAR
SAMPLE
SENTHILKUMAR
Sports_dhanapal
Sports_kumar
SPORTS_prathik
Sports_Sidd
SPORTS_Tapan
Sports_yuva
test_db
Security
Server Objects
Replication
Management
XEEvent Profiler
90 %
Messages
Commands completed successfully.
Completion time: 2024-07-25T21:01:28.6016203+05:30
90 %
Ready Type here to search 21:01 25-07-2024
Ln 82 Col 1 Ch 1 INS
PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows

```

-> drop the author table.

TASK - 2

1. Create Book as table with columns BookID, AuthorName, ISBN

2. BookID should be the primary key.

3. Alter type from NVARCHAR(100) TO NVARCHAR(50).

4. Alter type from NVARCHAR(100) TO NVARCHAR(150).

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar indicates the connection is to 'Assignment_24_07_2024.sql - PTSQLTTESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83))'.

The Object Explorer sidebar shows the database structure under 'PTSQLTTESTDB01'. The 'Tables' node is expanded, showing the 'Book' table.

The main pane displays the following T-SQL code:

```
-- ASSIGNMENT - 2 --  
  
CREATE TABLE Book(  
    BookID INT IDENTITY(1, 1) PRIMARY KEY,  
    BookName NVARCHAR(100),  
    AuthorName NVARCHAR(100),  
    ISBN NVARCHAR(50)  
);  
  
ALTER TABLE Book  
    ALTER COLUMN BookName NVARCHAR(50);  
  
ALTER TABLE Book  
    ALTER COLUMN AuthorName NVARCHAR(150);
```

The status bar at the bottom shows 'Query executed successfully.' and other session details.

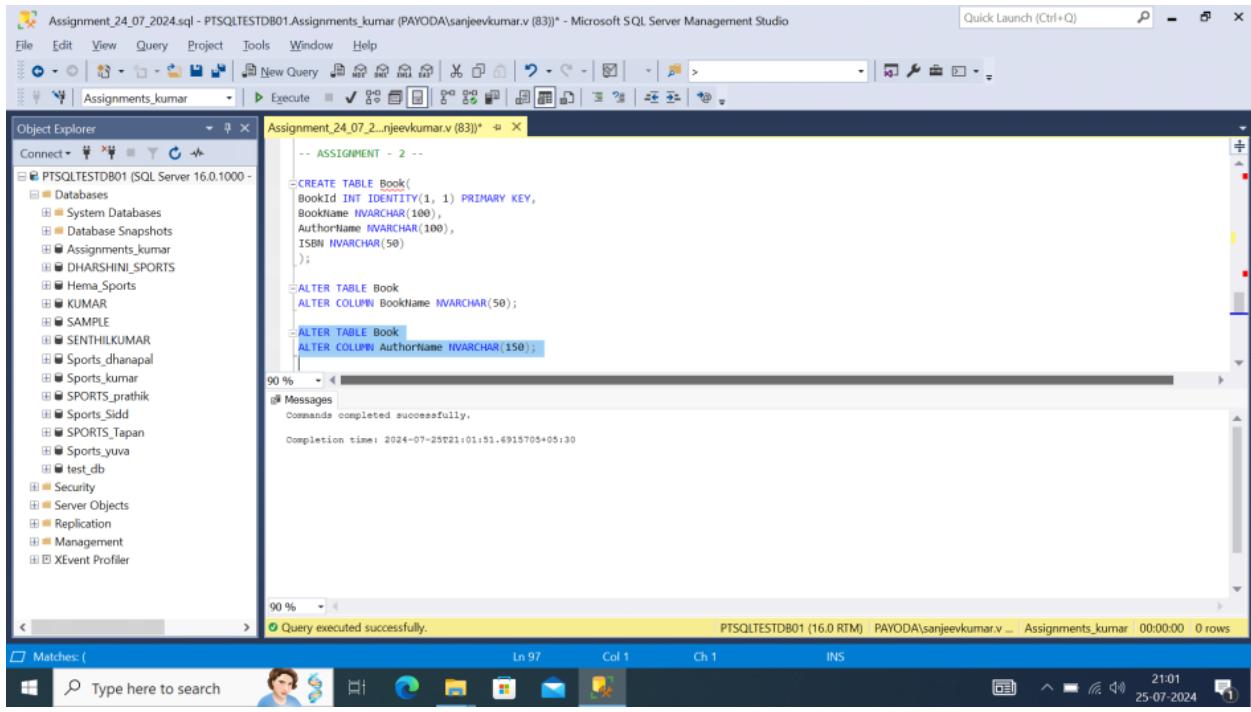
-> create Book table with bookId, authorName, and ISBN columns.

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar indicates the connection is to 'PTSQLTESTDB01' (SQL Server 16.0.1000) and the database is 'Assignments_kumar'. The 'Object Explorer' pane on the left lists various databases, including 'Assignments_kumar'. The main 'Query Editor' window contains the following SQL code:

```
-- ASSIGNMENT - 2 --  
  
CREATE TABLE Book  
(BookID INT IDENTITY(1, 1) PRIMARY KEY,  
BookName NVARCHAR(100),  
AuthorName NVARCHAR(100),  
ISBN NVARCHAR(50)  
);  
  
ALTER TABLE Book  
ALTER COLUMN BookName NVARCHAR(50);  
  
ALTER TABLE Book  
ALTER COLUMN AuthorName NVARCHAR(150);
```

The status bar at the bottom shows the message 'Query executed successfully.' and the completion time as '2024-07-25T22:01:47.5458076+05:30'. The bottom right corner displays the system tray with icons for battery, signal, and date/time.

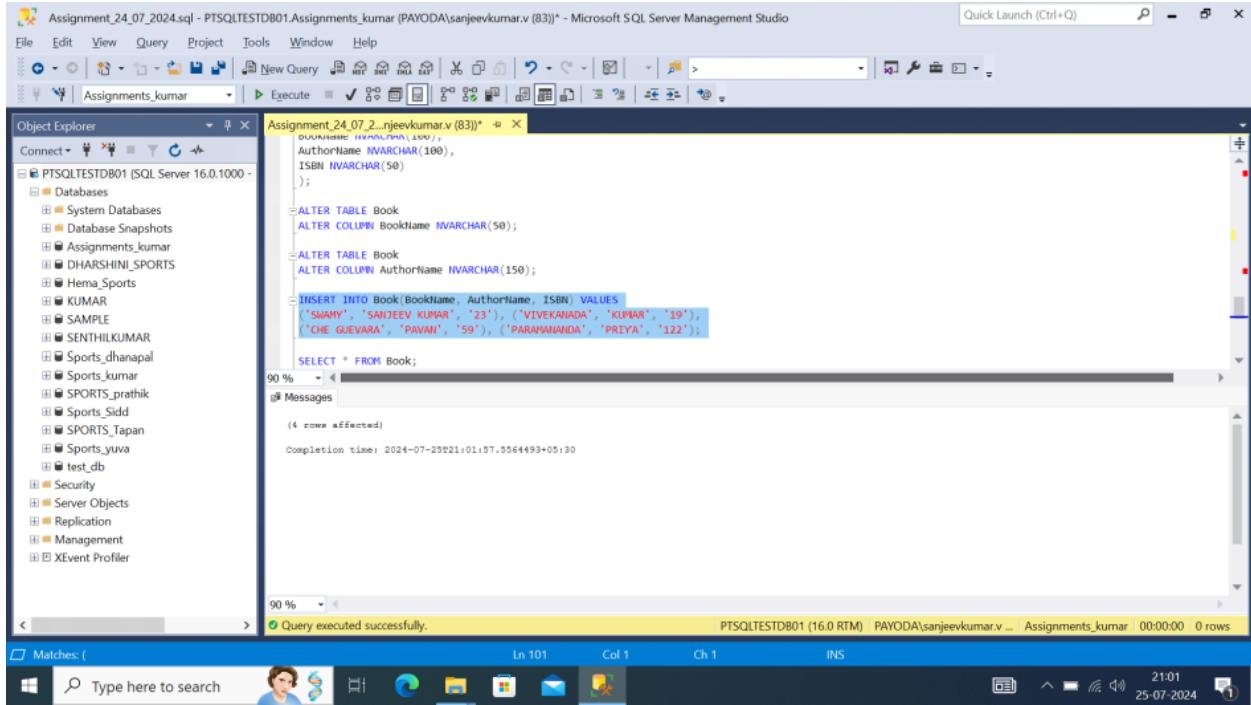
-> alter the book table change the datatype size 100 to 50.



```
-- ASSIGNMENT - 2 --
CREATE TABLE Book
BookId INT IDENTITY(1, 1) PRIMARY KEY,
BookName NVARCHAR(100),
AuthorName NVARCHAR(100),
ISBN NVARCHAR(50);
ALTER TABLE Book
ALTER COLUMN BookName NVARCHAR(50);
ALTER TABLE Book
ALTER COLUMN AuthorName NVARCHAR(150);
```

Messages
Command completed successfully.
Completion time: 2024-07-25T21:01:51.6915705+05:30

-> alter the book table change the datatype size 100 to 150.



```
CREATE TABLE Book
BookId INT IDENTITY(1, 1) PRIMARY KEY,
BookName NVARCHAR(100),
AuthorName NVARCHAR(100),
ISBN NVARCHAR(50);
ALTER TABLE Book
ALTER COLUMN BookName NVARCHAR(50);
ALTER TABLE Book
ALTER COLUMN AuthorName NVARCHAR(150);

INSERT INTO Book(BookName, AuthorName, ISBN) VALUES
('SWAMY', 'SANIEEV KUMAR', '23'), ('VIVEKANANDA', 'KUMAR', '19'),
('CHE GUEVARA', 'PAVAN', '59'), ('PARAMANANDA', 'PRIYA', '122');

SELECT * FROM Book;
```

Messages
(4 rows affected)
Completion time: 2024-07-25T21:01:57.5564493+05:30

-> inserting values.

```

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Execute
Assignment_24_07_2...njeevkumar.v (83)*
ALTER TABLE Book
ALTER COLUMN BookName NVARCHAR(50);

ALTER TABLE Book
ALTER COLUMN AuthorName NVARCHAR(150);

INSERT INTO Book(BookName, AuthorName, ISBN) VALUES
('SWAMY', 'SANJEEV KUMAR', '23'), ('VIVEKANADA', 'KUMAR', '19'),
('CHE GUEVARA', 'PAVAN', '59'), ('PARAMANANDA', 'PRIYA', '122');

SELECT * FROM Book;
TRUNCATE TABLE Book;

```

Results

BookId	BookName	AuthorName	ISBN
1	SWAMY	SANJEEV KUMAR	23
2	VIVEKANADA	KUMAR	19
3	CHE GUEVARA	PAVAN	59
4	PARAMANANDA	PRIYA	122

Query executed successfully.

-> select all rows in book table.

```

Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Execute
Assignment_24_07_2...njeevkumar.v (83)*
ALTER TABLE Book
ALTER COLUMN BookName NVARCHAR(50);

ALTER TABLE Book
ALTER COLUMN AuthorName NVARCHAR(150);

INSERT INTO Book(BookName, AuthorName, ISBN) VALUES
('SWAMY', 'SANJEEV KUMAR', '23'), ('VIVEKANADA', 'KUMAR', '19'),
('CHE GUEVARA', 'PAVAN', '59'), ('PARAMANANDA', 'PRIYA', '122');

SELECT * FROM Book;
TRUNCATE TABLE Book;
DROP TABLE Book;

```

Messages

Commands completed successfully.

Completion timer: 2024-07-25T21:02:07.6178874+05:30

Query executed successfully.

-> truncate the table book.

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "Assignment_24_07_2024.sql - PTSQLESTDB01.Assignments_kumar (PAYODA\sanjeevkumar.v (83)) - Microsoft SQL Server Management Studio". The Object Explorer on the left lists several databases, including "Assignments_kumar", "DHARSHINI_SPORTS", "Hema_Sports", "KUMAR", "SAMPLE", "SENTHILKUMAR", "Sports_dhanapal", "Sports_kumar", "SPORTS_prathik", "Sports_Sidd", "SPORTS_Tapan", "Sports_yuva", and "test_db". The central pane displays a query window titled "Assignment_24_07_2...njeevkumar.v (83)*". The query code is as follows:

```
ALTER TABLE Book
ALTER COLUMN BookName NVARCHAR(50);

ALTER TABLE Book
ALTER COLUMN AuthorName NVARCHAR(150);

INSERT INTO Book(BookName, AuthorName, ISBN) VALUES
('SWAMY', 'SANTEEV KUMAR', '23'), ('VIVEKANADA', 'KUMAR', '19'),
('CHE GUEVARA', 'PAVAM', '59'), ('PARAMANANDA', 'PRIYA', '122');

SELECT * FROM Book;

TRUNCATE TABLE Book;

DROP TABLE Book;
```

The status bar at the bottom indicates "Query executed successfully.", "Completion time: 2024-07-25T21:02:10.7226575+05:30", and "PTSQLTESTDB01 (16.0 RTM) PAYODA\sanjeevkumar.v ... Assignments_kumar 00:00:00 0 rows".

-> drop the table book.