



Lingelihle Nyuswa
STUDENT NUMBER:20231329

ADI632

FA2

Database Creation and Population

A.

```
CREATE DATABASE HealthCareDB;
```

Go

```
use HealthCareDB;
```

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery1.sql - LINGE \ MSSQLSERVER01\HealthCareDB (LINGE \ User (72)) - Microsoft SQL Server Management Studio". The main window displays a query editor with the following SQL script:

```
CREATE DATABASE HealthCareDB;
GO
USE HealthCareDB;
CREATE TABLE Patients (
    PatientID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    Gender VARCHAR(10),
    DateOfBirth DATE,
    ContactNumber VARCHAR(50),
    Address VARCHAR(100)
);
INSERT INTO Patients VALUES
(1, 'John', 'Doe', 'Male', '1980-01-01', '555-5555', '123 Main St'),
(2, 'Jane', 'Doe', 'Female', '1980-02-02', '555-1234', '456 Second St'),
(3, 'Sarah', 'Smith', 'Female', '1990-03-03', '555-9876', '789 Third Blvd'),
(4, 'Mike', 'Johnson', 'Male', '1970-04-04', '555-1111', '101 Fourth Ave'),
(5, 'Emily', 'Williams', 'Female', '2000-05-05', '555-2222', '111 Fifth Way');
```

The status bar at the bottom indicates "82 %" completion. The taskbar at the bottom right shows the system tray with icons for battery, signal, and date/time.

B

INPUT

```
CREATE DATABASE HealthCareDB;
Go
use HealthCareDB;

CREATE TABLE Patients (
    PatientID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    Gender VARCHAR(10),
    DateOfBirth DATE,
    ContactNumber VARCHAR(50),
    Address VARCHAR(100)
)
INSERT INTO Patients (PatientID, FirstName, LastName, Gender, DateOfBirth,
ContactNumber, Address)
VALUES
(1, 'John', 'Duki', 'Male', '1980-01-01', '12345678', '123 Main St'),
(2, 'Jane', 'Dam', 'Female', '1985-02-02', '1234567', '456 Second St'),
(3, 'Sarah', 'Will', 'Female', '1990-03-03', '1234567', '789 Third Blvd'),
(4, 'Mike', 'Parker', 'Male', '1970-04-04', '1234567', '101 Fourth Ave'),
(5, 'Emily', 'Willbur', 'Female', '2000-05-05', '1234567', '111 Fifth Way')
SELECT * FROM Patients

CREATE TABLE Doctors (
    DoctorID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    Gender VARCHAR(10),
    Specialization VARCHAR(50),
    ContactNumber VARCHAR(50),
    Email VARCHAR(100)
)
INSERT INTO Doctors (DoctorID, FirstName, LastName, Gender, Specialization,
ContactNumber, Email)
VALUES
(1, 'Will', 'Smith', 'Male', 'General Practioner', '69852365878',
'william.smith@healthcarecentral.com'),
(2, 'Sarah', 'Johnson', 'Female', 'Plastic Surgery', '8546359876',
'sarah.johnson@healthcarecentral.com'),
(3, 'Mark', 'Brown', 'Male', 'Dentist', '126548865658',
'mark.brown@healthcarecentral.com')
SELECT * FROM Doctors
```

```

CREATE TABLE Appointments (
    AppointmentID INT PRIMARY KEY,
    PatientID INT FOREIGN KEY REFERENCES Patients(PatientID),
    DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID),
    AppointmentDate DATE,
    AppointmentTime TIME
)

INSERT INTO Appointments (AppointmentID, PatientID, DoctorID, AppointmentDate, AppointmentTime)
VALUES
(1, 1, 1, '2023-01-01', '02:00 PM'),
(2, 3, 2, '2023-01-02', '11:00 AM'),
(3, 2, 1, '2023-01-03', '02:00 PM'),
(4, 1, 2, '2023-01-04', '10:00 AM'),
(5, 4, 3, '2023-01-05', '04:00 PM'),
(6, 5, 1, '2023-01-06', '12:00 AM'),
(7, 4, 2, '2023-01-07', '05:00 PM'),
(8, 2, 3, '2023-01-08', '03:30 PM'),
(9, 3, 1, '2023-01-09', '11:30 AM'),
(10, 5, 2, '2023-01-10', '12:30 AM')

SELECT * FROM Appointments

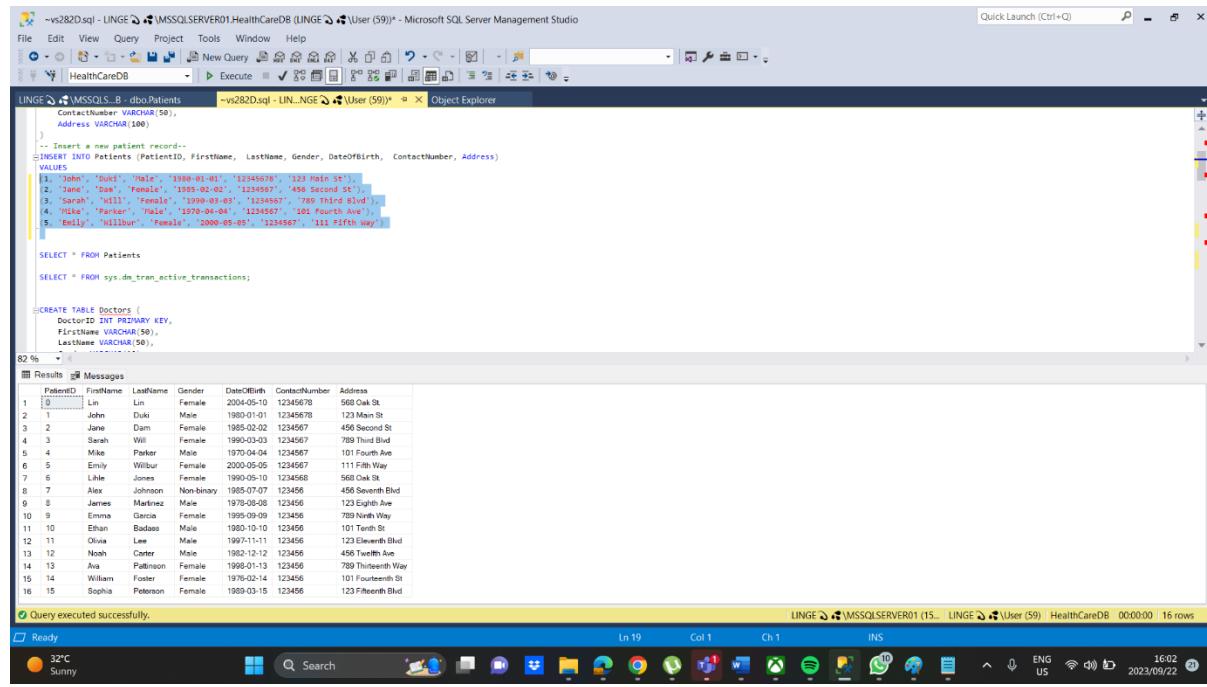
CREATE TABLE TreatmentHistory (
    TreatmentID INT PRIMARY KEY,
    PatientID INT FOREIGN KEY REFERENCES Patients(PatientID),
    DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID),
    TreatmentDate DATE,
    Diagnosis VARCHAR(100),
    Prescription VARCHAR(100)
)

INSERT INTO TreatmentHistory (TreatmentID, PatientID, DoctorID, TreatmentDate, Diagnosis, Prescription)
VALUES
(1, 1, 2, '2023-01-01', 'Flu', 'Ibuprofen'),
(2, 2, 1, '2023-01-02', 'Headache', 'Acetaminophen'),
(3, 3, 3, '2023-01-03', 'Fever', 'Aspirin'),
(4, 4, 2, '2023-01-04', 'Sprained Ankle', 'Rest and Ice'),
(5, 5, 1, '2023-01-05', 'Heart Palpitations', 'Cardiovascular Exam'),
(6, 1, 3, '2023-01-06', 'Diabetes', 'Insulin Injections'),
(7, 2, 2, '2023-01-07', 'Sore Throat', 'Antibiotics'),
(8, 3, 1, '2023-01-08', 'Migraine', 'Sumatriptan'),
(9, 4, 3, '2023-01-09', 'Back Pain', 'Physical Therapy'),
(10, 5, 2, '2023-01-10', 'Asthma', 'Steroid Inhaler')

SELECT * FROM TreatmentHistory

```

OUTPUT



File Edit View Query Project Tools Window Help

File Explorer Task List Object Explorer

LIN-GE \MSSQLS-B \dbo.Patients -vs282Dsql - LIN-GE \User (59) - Microsoft SQL Server Management Studio

```
File Edit View Query Project Tools Window Help
File Explorer Task List Object Explorer
LIN-GE \MSSQLS-B \dbo.Patients -vs282Dsql - LIN-GE \User (59) - Microsoft SQL Server Management Studio
-- Insert a new patient record-
INSERT INTO Patients (PatientID, FirstName, LastName, Gender, DateOfBirth, ContactNumber, Address)
VALUES
(1, 'John', 'Duki', 'Male', '1988-01-01', '12345678', '123 Main St'),
(2, 'Jane', 'Dam', 'Female', '1985-02-02', '12345678', '456 Second St'),
(3, 'Sarah', 'Will', 'Female', '1990-03-03', '12345678', '789 Third Blvd'),
(4, 'Mike', 'Parker', 'Male', '1970-04-04', '12345678', '101 Fourth Ave'),
(5, 'Emily', 'Wilbur', 'Female', '2000-05-05', '12345678', '111 Fifth Hwy')

SELECT * FROM Patients

SELECT * FROM sys.dm_tran_active_transactions;

CREATE TABLE Doctors (
    DoctorID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    ...)
```

Result Messages

PatientID	FirstName	LastName	Gender	DateOfBirth	ContactNumber	Address
1	Lin	Lin	Female	2004-05-10	12345678	568 Oak St.
2	John	Duki	Male	1980-01-01	12345678	123 Main St
3	Jane	Dam	Female	1985-02-02	12345678	456 Second St
4	Sarah	Will	Female	1990-03-03	12345678	789 Third Blvd
5	Mike	Parker	Male	1970-04-04	12345678	101 Fourth Ave
6	Emily	Wilbur	Female	2000-05-05	12345678	111 Fifth Hwy
7	Lisa	Ashley	Female	1990-05-10	12345678	568 Oak St.
8	Alex	Johnson	Non-binary	1985-07-07	12345678	456 Seventh Blvd
9	James	Martinez	Male	1970-08-08	12345678	123 Eighth Ave
10	Emma	Garcia	Female	1995-09-09	12345678	789 Ninth Way
11	Ethan	Badas	Male	1980-10-10	12345678	101 Tenth St
12	Olivia	Lee	Male	1997-11-11	12345678	123 Eleventh Blvd
13	Noah	Carter	Male	1982-12-12	12345678	456 Twelfth Ave
14	Ava	Pattinson	Female	1998-01-13	12345678	789 Thirteenth Way
15	William	Foster	Female	1976-02-14	12345678	101 Fourteenth St
16	Sophia	Peterson	Female	1989-03-15	12345678	123 Fifteenth Blvd

Query executed successfully.

Ready

LN 19 Col 1 Ch 1 INS

32°C Sunny

Search

ENGLISH US 16:02 2023/09/22

Note

-had to edit the Patients table due to errors you may find additional data such as “Lin Lin’ since the assignment was already completed. I just had to fix the patients table.

SQLQuery1.sql - LINGE \ MSSQLSERVER01\HealthCareDB (LINGE \ User (72)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Object Explorer

SQL HealthCareDB Execute

CREATE TABLE Doctors (DoctorID INT PRIMARY KEY, FirstName VARCHAR(50), LastName VARCHAR(50), Gender VARCHAR(10), Specialization VARCHAR(50), ContactNumber VARCHAR(50), Email VARCHAR(100))
INSERT INTO Doctors (DoctorID, FirstName, LastName, Gender, Specialization, ContactNumber, Email)
VALUES
(1, 'Will', 'Smith', 'Male', 'General Practitioner', '69852365878', 'william.smith@healthcarecentral.com'),
(2, 'Sarah', 'Johnson', 'Female', 'Plastic Surgery', '8546359876', 'sarah.johnson@healthcarecentral.com'),
(3, 'Mark', 'Brown', 'Male', 'Dentist', '12654886568', 'mark.brown@healthcarecentral.com')
SELECT * FROM Doctors
CREATE TABLE Appointments (AppointmentID INT PRIMARY KEY, PatientID INT FOREIGN KEY REFERENCES Patients(PatientID), DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID), AppointmentDate DATETIME, AppointmentTime TIME)
VALUES
(1, 1, 1, '2023-01-01', '10:00 AM'),
(2, 1, 2, '2023-01-02', '11:00 AM'),
(3, 2, 1, '2023-01-03', '02:00 PM'),
(4, 1, 2, '2023-01-04', '10:00 AM'),
(5, 4, 3, '2023-01-05', '11:00 AM'),
(6, 3, 2, '2023-01-06', '12:00 PM'),
(7, 4, 2, '2023-01-07', '05:00 PM'),
(8, 2, 3, '2023-01-08', '05:30 PM'),
(9, 3, 1, '2023-01-09', '11:30 AM'),
(10, 5, 2, '2023-01-10', '12:30 PM')
SELECT * FROM Appointments

Result Messages

DoctorID	FirstName	LastName	Gender	Specialization	ContactNumber	Email
1	Will	Smith	Male	General Practitioner	69852365878	william.smith@healthcarecentral.com
2	Sarah	Johnson	Female	Plastic Surgery	8546359876	sarah.johnson@healthcarecentral.com
3	Mark	Brown	Male	Dentist	12654886568	mark.brown@healthcarecentral.com

Query executed successfully.

Ready 29°C Sunny

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ENG US 17:02 2023/09/20

SQLQuery1.sql - LINGE \ MSSQLSERVER01\HealthCareDB (LINGE \ User (72)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Object Explorer

SQL HealthCareDB Execute

CREATE TABLE Appointments (AppointmentID INT PRIMARY KEY, PatientID INT FOREIGN KEY REFERENCES Patients(PatientID), DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID), AppointmentDate DATETIME, AppointmentTime TIME)
VALUES
(1, 1, 1, '2023-01-01', '10:00 PM'),
(2, 1, 2, '2023-01-02', '11:00 AM'),
(3, 2, 1, '2023-01-03', '02:00 PM'),
(4, 1, 2, '2023-01-04', '10:00 AM'),
(5, 4, 3, '2023-01-05', '11:00 AM'),
(6, 3, 2, '2023-01-06', '12:00 PM'),
(7, 4, 2, '2023-01-07', '05:00 PM'),
(8, 2, 3, '2023-01-08', '05:30 PM'),
(9, 3, 1, '2023-01-09', '11:30 AM'),
(10, 5, 2, '2023-01-10', '12:30 AM')
SELECT * FROM Appointments
CREATE TABLE TreatmentHistory (TreatmentID INT PRIMARY KEY, PatientID INT FOREIGN KEY REFERENCES Patients(PatientID), DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID), TreatmentDate DATETIME, TreatmentTime TIME)
VALUES
(1, 1, 1, '2023-01-01', '10:00 AM'),
(2, 2, 3, '2023-01-02', '11:00 AM'),
(3, 3, 2, '2023-01-03', '12:00 PM'),
(4, 4, 1, '2023-01-04', '01:00 PM'),
(5, 5, 4, '2023-01-05', '02:00 PM'),
(6, 6, 1, '2023-01-06', '03:00 PM'),
(7, 7, 4, '2023-01-07', '04:00 PM'),
(8, 8, 2, '2023-01-08', '05:00 PM'),
(9, 9, 3, '2023-01-09', '06:00 PM'),
(10, 10, 5, '2023-01-10', '07:00 PM')
SELECT * FROM TreatmentHistory

Result Messages

AppointmentID	PatientID	DoctorID	AppointmentDate	AppointmentTime
1	1	1	2023-01-01	10:00:00.000000
2	2	3	2023-01-02	11:00:00.000000
3	3	2	2023-01-03	12:00:00.000000
4	4	1	2023-01-04	01:00:00.000000
5	5	4	2023-01-05	02:00:00.000000
6	6	1	2023-01-06	03:00:00.000000
7	7	4	2023-01-07	04:00:00.000000
8	8	2	2023-01-08	05:00:00.000000
9	9	3	2023-01-09	06:00:00.000000
10	10	5	2023-01-10	07:00:00.000000

Query executed successfully.

Ready 29°C Sunny

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```

SQLQuery1.sql - LINGE\User (72)* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Object Explorer
HealthCareDB | Execute | Quick Launch (Ctrl+Q) P X
SQLQuery1.sql - LINGE\User (72)*
INSERT INTO TreatmentHistory (TreatmentID, PatientID, DoctorID, TreatmentDate, Diagnosis, Prescription)
VALUES
(1, 1, 2, '2023-01-01', 'Flu', 'Ibuprofen'),
(2, 2, 1, '2023-01-02', 'Headache', 'Acetaminophen'),
(3, 3, 3, '2023-01-03', 'Fever', 'Aspirin'),
(4, 4, 2, '2023-01-04', 'Sprained Ankle', 'Rest and Ice'),
(5, 5, 1, '2023-01-05', 'Heart Palpitations', 'Cardiovascular Exam'),
(6, 1, 3, '2023-01-06', 'Diabetes', 'Insulin Injections'),
(7, 2, 2, '2023-01-07', 'Sore Throat', 'Antibiotics'),
(8, 3, 1, '2023-01-08', 'Migraine', 'Sumatriptan'),
(9, 4, 5, '2023-01-09', 'Back Pain', 'Physical Therapy'),
(10, 5, 2, '2023-01-10', 'Asthma', 'Steroid Inhaler')

SELECT * FROM TreatmentHistory

```

Results

TreatmentID	PatientID	DoctorID	TreatmentDate	Diagnosis	Prescription
1	1	2	2023-01-01	Flu	Ibuprofen
2	2	1	2023-01-02	Headache	Acetaminophen
3	3	3	2023-01-03	Fever	Aspirin
4	4	2	2023-01-04	Sprained Ankle	Rest and Ice
5	5	1	2023-01-05	Heart Palpitations	Cardiovascular Exam
6	6	1	2023-01-06	Diabetes	Insulin Injections
7	7	2	2023-01-07	Sore Throat	Antibiotics
8	8	3	2023-01-08	Migraine	Sumatriptan
9	9	4	2023-01-09	Back Pain	Physical Therapy
10	10	5	2023-01-10	Asthma	Steroid Inhaler

Query executed successfully.

Ready

29°C Sunny

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C

PATIENTS

INPUT

```

INSERT INTO Patients (PatientID, FirstName, LastName, Gender, DateOfBirth,
ContactNumber, Address)
VALUES
(1, 'John', 'Duki', 'Male', '1980-01-01', '12345678', '123 Main St'),
(2, 'Jane', 'Dam', 'Female', '1985-02-02', '1234567', '456 Second St'),
(3, 'Sarah', 'Will', 'Female', '1990-03-03', '1234567', '789 Third Blvd'),
(4, 'Mike', 'Parker', 'Male', '1970-04-04', '1234567', '101 Fourth Ave'),
(5, 'Emily', 'Willbur', 'Female', '2000-05-05', '1234567', '111 Fifth Way'),
(6, 'Samantha', 'Davis', 'Female', '1990-06-06', '123456', '789 Sixth St'),
(7, 'Alex', 'Johnson', 'Non-binary', '1985-07-07', '123456', '456 Seventh Blvd'),
(8, 'James', 'Martinez', 'Male', '1978-08-08', '123456', '123 Eighth Ave'),
(9, 'Emma', 'Garcia', 'Female', '1995-09-09', '123456', '789 Ninth Way'),
(10, 'Ethan', 'Badass', 'Male', '1980-10-10', '123456', '101 Tenth St'),
(11, 'Olivia', 'Lee', 'Male', '1997-11-11', '123456', '123 Eleventh Blvd'),
(12, 'Noah', 'Carter', 'Male', '1982-12-12', '123456', '456 Twelfth Ave'),
(13, 'Ava', 'Pattinson', 'Female', '1998-01-13', '123456', '789 Thirteenth Way'),
(14, 'William', 'Foster', 'Female', '1976-02-14', '123456', '101 Fourteenth St')

```

```
(15, 'Sophia', 'Peterson', 'Female', '1989-03-15', '123456', '123 Fifteenth Blvd')
```

OUTPUT

The screenshot shows the Microsoft SQL Server Management Studio interface. A query window displays the following code:

```
INSERT INTO Patients (PatientID, FirstName, LastName, Gender, DateOfBirth, ContactNumber, Address)
VALUES
(1, 'John', 'Doe', 'Male', '1988-01-01', '12345678', '123 Main St'),
(2, 'Jane', 'Doe', 'Female', '1985-02-02', '12345678', '456 Second St'),
(3, 'Sarah', 'Will', 'Female', '1990-03-03', '12345678', '789 Third Blvd'),
(4, 'Mike', 'Parker', 'Male', '1970-04-04', '12345678', '101 Fourth Ave'),
(5, 'Emily', 'Wilson', 'Female', '2000-05-05', '12345678', '123 Fifth St'),
(6, 'Olivia', 'Davis', 'Female', '1998-06-06', '12345678', '145 Sixth St'),
(7, 'Alex', 'Johnson', 'Non-binary', '1985-07-07', '12345678', '456 Seventh Blvd'),
(8, 'James', 'Martinez', 'Male', '1978-08-08', '12345678', '123 Eighth Ave'),
(9, 'Emma', 'Garcia', 'Female', '1995-09-09', '12345678', '789 Ninth Way'),
(10, 'Ethan', 'Baines', 'Male', '1982-10-10', '12345678', '101 Tenth St'),
(11, 'Olivia', 'Lee', 'Male', '1997-11-11', '12345678', '123 Eleventh Blvd'),
(12, 'Noah', 'Carter', 'Male', '1982-12-12', '12345678', '456 Twelfth Ave'),
(13, 'Ava', 'Pattinson', 'Female', '1998-01-13', '12345678', '789 Thirteenth Way'),
(14, 'William', 'Foster', 'Female', '1976-02-14', '12345678', '101 Fourteenth St'),
(15, 'Sophia', 'Peterson', 'Female', '1989-03-15', '12345678', '123 Fifteenth Blvd')

SELECT * FROM Patients
```

The results pane shows the 15 rows inserted into the Patients table:

PatientID	FirstName	LastName	Gender	DateOfBirth	ContactNumber	Address
1	Lin	Lin	Female	2004-05-10	12345678	568 Oak St
2	John	Doe	Male	1980-01-01	12345678	123 Main St
3	Jane	Doe	Female	1985-02-02	12345678	456 Second St
4	Sarah	Will	Female	1990-03-03	12345678	789 Third Blvd
5	Mike	Parker	Male	1970-04-04	12345678	101 Fourth Ave
6	Emily	Wilson	Female	2000-05-05	12345678	123 Fifth St
7	Alex	Johnson	Non-binary	1985-06-06	12345678	456 Sixth St
8	James	Martinez	Male	1978-07-07	12345678	123 Eighth Ave
9	Emma	Garcia	Female	1995-08-08	12345678	789 Ninth Way
10	Ethan	Baines	Male	1982-09-09	12345678	101 Tenth St
11	Olivia	Lee	Male	1997-10-10	12345678	123 Eleventh Blvd
12	Noah	Carter	Male	1982-11-11	12345678	456 Twelfth Ave
13	Ava	Pattinson	Female	1998-12-12	12345678	789 Thirteenth Way
14	William	Foster	Female	1976-01-13	12345678	101 Fourteenth St
15	Sophia	Peterson	Female	1989-02-14	12345678	123 Fifteenth Blvd
						123 Fifteenth Blvd

At the bottom of the screen, the taskbar shows the date as 2023/09/22 and the time as 16:07.

Note

-had to edit the Patients table due to errors you may find additional data such as “Lin Lin’ since the assignment was already completed. I just had to fix the patients table

DOCTORS

INPUT

```
INSERT INTO Doctors (DoctorID, FirstName, LastName, Gender, Specialization,
ContactNumber, Email)
VALUES
(1, 'Will', 'Smith', 'Male', 'General Practitioner', '69852365878',
'william.smith@healthcarecentral.com'),
```

```
(2, 'Sarah', 'Johnson', 'Female', 'Plastic Surgery', '8546359876',
'sarah.johnson@healthcarecentral.com'),
(3, 'Mark', 'Brown', 'Male', 'Dentist', '126548865658',
'mark.brown@healthcarecentral.com'),
(4, 'Meg', 'Ryan', 'Male', 'Dermatology', '123456', 'emdavis@healthcarecentral.com'),
(5, 'Ryan', 'Garcia', 'Male', 'Oncology', '654132',
'ryan.garcia@healthcarecentral.com'),
(6, 'Megan', 'Hernandez', 'Female', 'Pediatrics', '246810',
'megan.hernandez@healthcarecentral.com'),
(7, 'David', 'Lee', 'Male', 'Neurology', '36548', 'lee@healthcarecentral.com'),
(8, 'Emma', 'Carter', 'Female', 'Gynecology', '123456',
'emma.carter@healthcarecentral.com'),
(9, 'John', 'Roberts', 'Male', 'Psychiatry', '123456',
'j.roberts@healthcarecentral.com'),
(10, 'Grace', 'Foster', 'Female', 'Internal Medicine', '123456',
'grace.foster@healthcarecentral.com'),
(11, 'Jacob', 'Peterson', 'Male', 'Endocrinology', '123456',
'peterson@healthcarecentral.com'),
(12, 'Caroline', 'Taylor', 'Female', 'Allergy and Immunology', '123456',
'caroline.taylor@healthcarecentral.com'),
(13, 'Oliver', 'Jones', 'Male', 'Pulmonology', '1223456',
'oliver.jones@healthcarecentral.com'),
(14, 'Ken', 'Smith', 'Male', 'Ophthalmology', '658423',
'smith@healthcarecentral.com'),
(15, 'Jimmy', 'Johnson', 'Male', 'Rheumatology', '999668',
'johnson@healthcarecentral.com')
```

SELECT * FROM Doctors

OUTPUT

```

SQLQuery1.sql - LINGE \ MSSQLSERVER01\HealthCareDB (LINGE \ User (72)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Object Explorer
HealthCareDB Execute
SQLQuery1.sql - LINGE \ User (72) Object Explorer
[SQL] [HealthCareDB] [dbo]
SELECT * FROM Doctors
[SQL] [HealthCareDB] [dbo]
INSERT INTO Doctors (DoctorID, FirstName, LastName, Gender, Specialization, ContactNumber, Email)
VALUES
(1, 'Will', 'Smith', 'Male', 'General Practitioner', '698523558787', 'william.smith@healthcarecentral.com'),
(2, 'Sarah', 'Johnson', 'Female', 'Plastic Surgery', '8546559876', 'sarah.johnson@healthcarecentral.com'),
(3, 'Mark', 'Brown', 'Male', 'Dentist', '12345678901234567890', 'mark.brown@healthcarecentral.com'),
(4, 'Meg', 'Hernandez', 'Male', 'Dermatology', '123456', 'meg.hernandez@healthcarecentral.com'),
(5, 'Ryan', 'Garcia', 'Male', 'Oncology', '654321', 'ryan.garcia@healthcarecentral.com'),
(6, 'Megan', 'Hernandez', 'Female', 'Pediatrics', '246810', 'megan.hernandez@healthcarecentral.com'),
(7, 'David', 'Lee', 'Male', 'Neurology', '654321', 'david.lee@healthcarecentral.com'),
(8, 'Emily', 'Smith', 'Female', 'Endocrinology', '123456', 'emily.smith@healthcarecentral.com'),
(9, 'John', 'Roberts', 'Male', 'Psychiatry', '123456', 'john.roberts@healthcarecentral.com'),
(10, 'Grace', 'Foster', 'Female', 'Internal Medicine', '123456', 'grace.foster@healthcarecentral.com'),
(11, 'Jacob', 'Peterson', 'Male', 'Endocrinology', '123456', 'jacob.peterson@healthcarecentral.com'),
(12, 'Caroline', 'Taylor', 'Female', 'Allergy and Immunology', '123456', 'caroline.taylor@healthcarecentral.com'),
(13, 'Oliver', 'Jones', 'Male', 'Pulmonology', '123456', 'oliver.jones@healthcarecentral.com'),
(14, 'Ken', 'Smith', 'Male', 'Ophthalmology', '65423', 'ken.smith@healthcarecentral.com'),
(15, 'Jimmy', 'Johnson', 'Male', 'Rheumatology', '999668', 'jimmy.johnson@healthcarecentral.com')

SELECT * FROM Doctors

```

Results 15 Messages

DoctorID	FirstName	LastName	Gender	Specialization	ContactNumber	Email
1	Will	Smith	Male	General Practitioner	698523558787	william.smith@healthcarecentral.com
2	Sarah	Johnson	Female	Plastic Surgery	8546559876	sarah.johnson@healthcarecentral.com
3	Mark	Brown	Male	Dentist	12345678901234567890	mark.brown@healthcarecentral.com
4	Meg	Ryan	Male	Dermatology	123456	meg.hernandez@healthcarecentral.com
5	Ryan	Garcia	Male	Oncology	654321	ryan.garcia@healthcarecentral.com
6	Megan	Hernandez	Female	Pediatrics	246810	megan.hernandez@healthcarecentral.com
7	David	Lee	Male	Neurology	654321	david.lee@healthcarecentral.com
8	Emily	Smith	Female	Endocrinology	123456	emily.smith@healthcarecentral.com
9	John	Roberts	Male	Psychiatry	123456	john.roberts@healthcarecentral.com
10	Grace	Foster	Female	Internal Medicine	123456	grace.foster@healthcarecentral.com
11	Jacob	Peterson	Male	Endocrinology	123456	jacob.peterson@healthcarecentral.com
12	Caroline	Taylor	Female	Allergy and Immunology	123456	caroline.taylor@healthcarecentral.com
13	Oliver	Jones	Male	Pulmonology	123456	oliver.jones@healthcarecentral.com
14	Ken	Smith	Male	Ophthalmology	65423	ken.smith@healthcarecentral.com
15	Jimmy	Johnson	Male	Rheumatology	999668	jimmy.johnson@healthcarecentral.com

Query executed successfully.

APPOINTMENTS

INPUT

```

INSERT INTO Appointments (AppointmentID, PatientID, DoctorID, AppointmentDate,
AppointmentTime)
VALUES

```

```

(11, 6, 4, '2023-01-11', '01:00 PM'),
(12, 7, 5, '2023-01-12', '11:00 AM'),
(13, 8, 6, '2023-01-13', '02:00 PM'),
(14, 9, 7, '2023-01-14', '08:00 AM'),
(15, 10, 8, '2023-01-15', '05:00 PM')

```

```

SELECT * FROM Appointments

```

OUTPUT

```
--vs282D.sql - LINGE\NGL\user (User (59)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
File HealthCareDB Execute New Query Object Explorer
--vs282D.sql - LINGE\NGL\user (User (59)) - Microsoft SQL Server Management Studio
SELECT * FROM Doctors
CREATE TABLE Appointments (
    AppointmentID INT PRIMARY KEY,
    PatientID INT FOREIGN KEY REFERENCES Patients(PatientID),
    DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID),
    AppointmentDate DATE,
    AppointmentTime TIME
)
INSERT INTO Appointments (AppointmentID, PatientID, DoctorID, AppointmentDate, AppointmentTime)
VALUES
(11, 6, 4, '2023-01-11', '01:00 PM'),
(12, 7, 5, '2023-01-12', '11:00 AM'),
(13, 8, 6, '2023-01-13', '02:00 PM'),
(14, 9, 7, '2023-01-14', '08:00 AM'),
(15, 10, 8, '2023-01-15', '05:00 PM')
SELECT * FROM Appointments
82 %
```

Messages

Completion time: 2023-09-22T14:07:09.7792894Z

Result Set

Query executed successfully.

LN 63 Col 1 Ch 1 INS

Ready 31°C Sunny 14:07 2023/09/22

```
--vs282D.sql - LINGE\NGL\user (User (59)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
File HealthCareDB Execute New Query Object Explorer
--vs282D.sql - LINGE\NGL\user (User (59)) - Microsoft SQL Server Management Studio
SELECT * FROM Appointments
CREATE TABLE TreatmentHistory (
    TreatmentID INT PRIMARY KEY,
    PatientID INT FOREIGN KEY REFERENCES Patients(PatientID),
    DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID),
    TreatmentDate DATE,
    Diagnosis VARCHAR(100),
    Prescription VARCHAR(100)
)
INSERT INTO TreatmentHistory (TreatmentID, PatientID, DoctorID, TreatmentDate, Diagnosis, Prescription)
VALUES
(11, 5, 2, '2023-01-10', 'Asthma', 'Inhaler'),
82 %
```

Messages

AppointmentID	PatientID	DoctorID	AppointmentDate	AppointmentTime
1	0	3	2023-08-15	12:00:00.000000
2	1	1	2023-01-01	10:00:00.000000
3	2	3	2023-01-02	11:00:00.000000
4	3	2	2023-01-03	14:00:00.000000
5	4	1	2023-01-04	10:00:00.000000
6	5	4	2023-01-05	10:00:00.000000
7	6	5	2023-01-06	09:00:00.000000
8	7	4	2023-01-07	17:00:00.000000
9	8	2	2023-01-08	15:30:00.000000
10	9	3	2023-01-09	11:30:00.000000
11	10	5	2023-01-10	09:30:00.000000
12	11	6	2023-01-11	11:00:00.000000
13	12	7	2023-01-12	11:00:00.000000
14	13	8	2023-01-13	14:00:00.000000
15	14	9	2023-01-14	08:00:00.000000
16	15	10	2023-01-15	17:00:00.000000
17	16	9	2023-01-16	10:00:00.000000

Query executed successfully.

LN 73 Col 1 Ch 1 INS

Ready 31°C Sunny 14:28 2023/09/22

TREATMENT HISTORY

INPUT

```

INSERT INTO TreatmentHistory ( TreatmentID, PatientID, DoctorID, TreatmentDate ,
Diagnosis, Prescription)
VALUES

(11, 5, 2, '2023-01-10', 'Asthma', 'Inhaler'),
(12, 7, 5, '2023-01-12', 'Depression', 'Antidepressants'),
(13, 8, 6, '2023-01-13', 'Pregnancy', 'Pregnancy Vitamins'),
(14, 9, 7, '2023-01-14', 'Anxiety', 'Therapy'),
(15, 10, 8, '2023-01-15', 'High Blood Pressure', 'Exercise'),
(16, 13, 11, '2023-01-18', 'Flu', 'Cough Mixture')

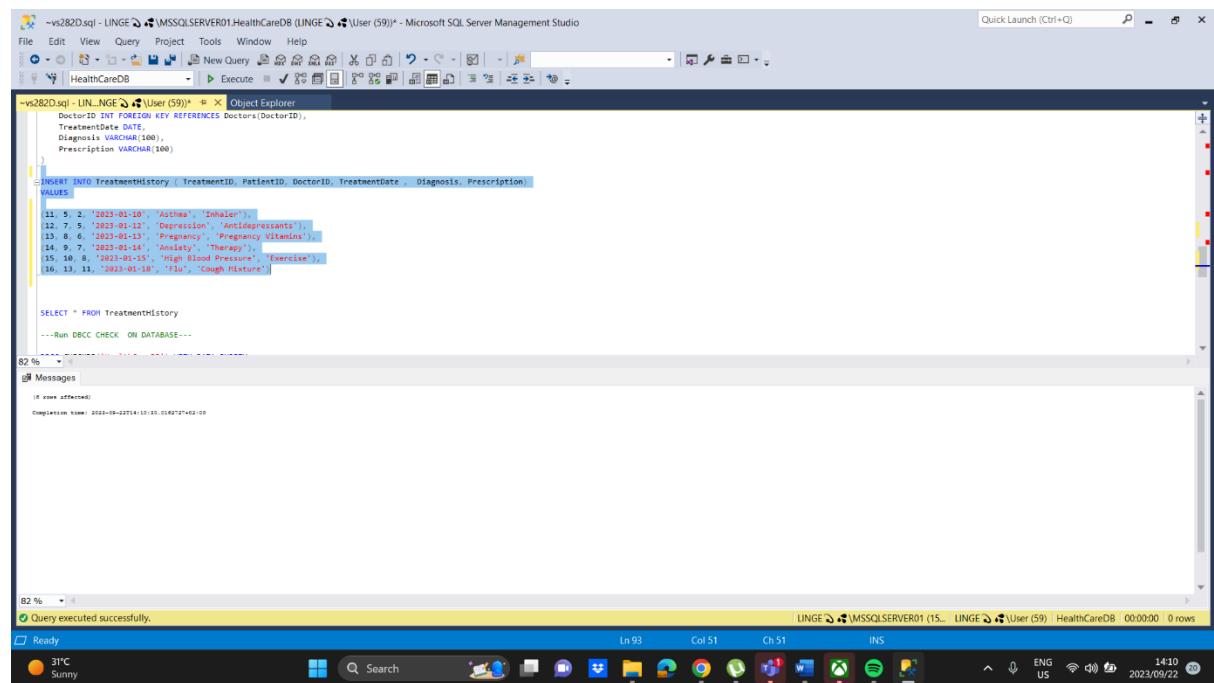
```

```

SELECT * FROM TreatmentHistory

```

OUTPUT



```

File Edit View Query Project Tools Window Help
File - o - + New Query | X Execute | V S G D E F T B C P Q
Quick Launch (Ctrl+Q) x
HealthCareDB -> Object Explorer
DoctorID INT FOREIGN KEY REFERENCES Doctors(DoctorID),
TreatmentDate DATE,
Diagnosis VARCHAR(100),
Prescription VARCHAR(100)

INSERT INTO TreatmentHistory ( TreatmentID, PatientID, DoctorID, TreatmentDate , Diagnosis, Prescription)
VALUES
(11, 5, 2, '2023-01-10', 'Asthma', 'Inhaler'),
(12, 7, 5, '2023-01-12', 'Depression', 'Antidepressants'),
(13, 8, 6, '2023-01-13', 'Pregnancy', 'Pregnancy Vitamins'),
(14, 9, 7, '2023-01-14', 'Anxiety', 'Therapy'),
(15, 10, 8, '2023-01-15', 'High Blood Pressure', 'Exercise'),
(16, 13, 11, '2023-01-18', 'Flu', 'Cough Mixture')

SELECT * FROM TreatmentHistory
---Run DBCC CHECK ON DATABASE---
82 %
Messages
(0 rows affected)
Completion time: 2023-09-22T14:10:20.0183740+02:00
82 % 82 %
Query executed successfully.
LN93 Col 51 Ch 51 INS
Ready 31°C Sunny Search
14:10 ENG US 2023/09/22

```

The screenshot shows a Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads: "vs282D.sql - LINGE \User (59)* - MSSQLSERVER01\HealthCareDB (LINGE \User (59)* - Microsoft SQL Server Management Studio". The main area contains a query window with the following T-SQL code:

```
INSERT INTO TreatmentHistory (TreatmentID, PatientID, DoctorID, TreatmentDate, Diagnosis, Prescription)
VALUES
(1, 5, 2, '2023-01-10', 'Asthma', 'Inhaler'),
(2, 7, 5, '2023-01-12', 'Depression', 'Antidepressants'),
(3, 8, 6, '2023-01-13', 'Pregnancy', 'Pregnancy Vitamins'),
(4, 9, 7, '2023-01-14', 'Back Pain', 'Therapy'),
(5, 10, 8, '2023-01-15', 'High Blood Pressure', 'Exercise'),
(6, 11, 9, '2023-01-16', 'Flu', 'Cough Mixture'),
(7, 12, 10, '2023-01-17', 'Allergy', 'Antihistamines'),
(8, 13, 11, '2023-01-18', 'Flu', 'Cough Mixture')

SELECT * FROM TreatmentHistory
--Run DBCC CHECKDB
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity...
SELECT * FROM sys.dm_exec_sessions;
```

The results grid shows 18 rows of data from the TreatmentHistory table:

TreatmentID	PatientID	DoctorID	TreatmentDate	Diagnosis	Prescription
3	2	1	2023-01-02	Headache	Acetaminophen
4	3	3	2023-01-03	Fever	Aspirin
5	4	2	2023-01-04	Sprained Ankle	Rest and Ice
6	5	1	2023-01-05	Heart Palpitations	Cardiovascular Exam
7	6	3	2023-01-06	Diabetes	Insulin Injections
8	7	2	2023-01-07	Sore Throat	Antibiotics
9	8	3	2023-01-08	Migraine	Sumatriptan
10	9	4	2023-01-09	Back Pain	Physical Therapy
11	10	5	2023-01-10	Asthma	Stoma Inhaler
12	11	5	2023-01-11	Asthma	Inhaler
13	12	7	2023-01-12	Depression	Antidepressants
14	13	8	2023-01-13	Pregnancy	Pregnancy Vitamins
15	14	9	2023-01-14	Anxiety	Therapy
16	15	10	2023-01-15	High Blood Pressure	Exercise
17	16	11	2023-01-16	Flu	Cough Mixture
18	20	3	2023-01-17	Allergy	Antihistamines

At the bottom of the SSMS window, it says "Query executed successfully." The taskbar at the bottom of the screen shows the Windows Start button, a search bar, and various pinned icons like File Explorer, Edge, and File History. The system tray shows the date and time as "2023/09/22 14:26".

****NOTES****

-There is some data that was already available in the original table, so I just added the extra 5 on the **treatment history and Appointments** to make the 15 sample records, I hope that's okay

Data Integrity and Monitoring

A

INPUT

--Run DBCC CHECK ON DATABASE---

```
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
```

OUTPUT

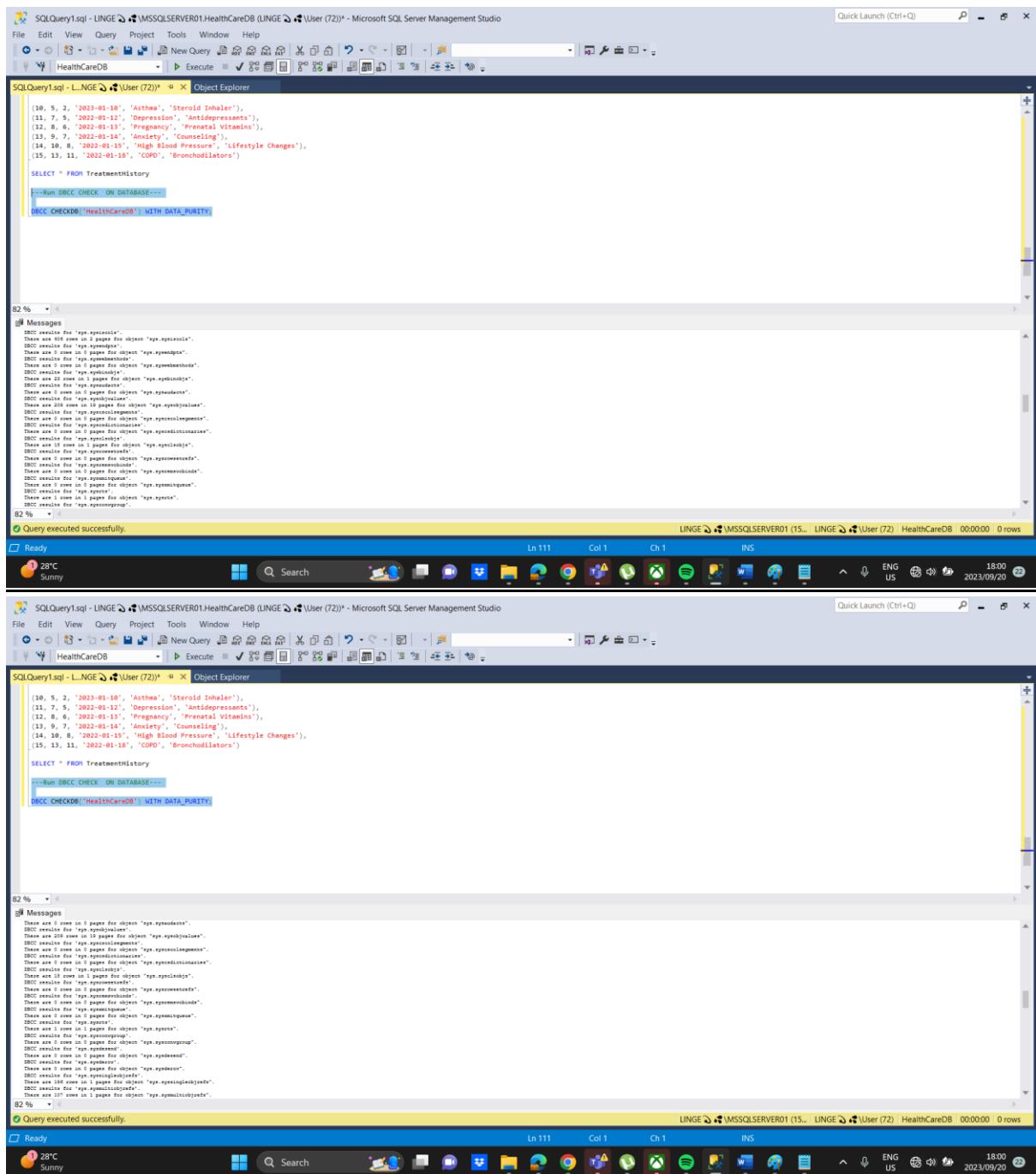
The screenshot shows the Microsoft SQL Server Management Studio interface. A query window titled "SQLQuery1.sql - LINGE \User (72)" is open, displaying the following T-SQL code:

```
SELECT * FROM TreatmentHistory
----Run DBCC CHECK ON DATABASE...
DBCC CHECKDB ('HealthCareDB') WITH DATA_PURITY;
```

The results pane shows the output of the DBCC CHECKDB command, which includes messages about index analysis and statistics. The status bar at the bottom indicates "Query executed successfully." and "0 rows". The taskbar shows the system tray with a weather icon (28°C, Sunny) and the date/time (18:00 2023/09/20).

The second screenshot shows the same setup, but the results pane is empty, indicating no errors or warnings were found. The status bar and taskbar are identical to the first screenshot.

The third screenshot shows the same setup, but the results pane is empty. The status bar and taskbar are identical to the previous screenshots.



```

SQLQuery1.sql - LINGE | MSSQLSERVER01.HealthCareDB (LINGE) | User (72)* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
... | New Query | Execute | ... | Quick Launch (Ctrl+Q)
... | HealthCareDB |
SELECT * FROM TreatmentHistory
-->Run DBCC CHECK ON DATABASE...
DBCC CHECKDB 'HealthCareDB' WITH DATA_PURITY
82 %
Messages
DBCC results for 'sys.sysobjects'.
There are 0 rows in 0 pages for object "sys.sysobjects".
DBCC results for 'sys.sysindexes'.
There are 0 rows in 0 pages for object "sys.sysindexes".
DBCC results for 'sys.sysindexstats'.
There are 0 rows in 0 pages for object "sys.sysindexstats".
DBCC results for 'sys.sysconstraints'.
There are 0 rows in 0 pages for object "sys.sysconstraints".
DBCC results for 'sys.syscheckconstraints'.
There are 0 rows in 0 pages for object "sys.syscheckconstraints".
DBCC results for 'sys.sysforeignkeys'.
There are 0 rows in 0 pages for object "sys.sysforeignkeys".
DBCC results for 'sys.sysFKConstraints'.
There are 0 rows in 0 pages for object "sys.sysFKConstraints".
DBCC results for 'sys.syscolumns'.
There are 0 rows in 0 pages for object "sys.syscolumns".
DBCC results for 'sys.sysrules'.
There are 0 rows in 0 pages for object "sys.sysrules".
DBCC results for 'sys.sysrulecols'.
There are 0 rows in 0 pages for object "sys.sysrulecols".
DBCC results for 'sys.sysrulecondcols'.
There are 0 rows in 0 pages for object "sys.sysrulecondcols".
DBCC results for 'sys.sysrulecond'.
There are 0 rows in 0 pages for object "sys.sysrulecond".
DBCC results for 'sys.sysrule'.
There are 0 rows in 0 pages for object "sys.sysrule".
DBCC results for 'sys.systypes'.
There are 0 rows in 0 pages for object "sys.systypes".
DBCC results for 'sys.sysfulltextcatalogs'.
There are 0 rows in 0 pages for object "sys.sysfulltextcatalogs".
DBCC results for 'sys.sysfulltextindexes'.
There are 0 rows in 0 pages for object "sys.sysfulltextindexes".
DBCC results for 'sys.sysfulltextindexkeys'.
There are 0 rows in 0 pages for object "sys.sysfulltextindexkeys".
DBCC results for 'sys.sysfulltextkeyphrases'.
There are 0 rows in 0 pages for object "sys.sysfulltextkeyphrases".
DBCC results for 'sys.syslogins'.
There are 0 rows in 0 pages for object "sys.syslogins".
DBCC results for 'sys.sysusers'.
There are 0 rows in 0 pages for object "sys.sysusers".
DBCC results for 'sys.sysfilegroup'.
There are 0 rows in 0 pages for object "sys.sysfilegroup".
DBCC results for 'sys.sysfiles'.
There are 0 rows in 0 pages for object "sys.sysfiles".
DBCC results for 'sys.sysfilegroups'.
There are 0 rows in 0 pages for object "sys.sysfilegroups".
DBCC results for 'sys.sysfilegroupmembers'.
There are 0 rows in 0 pages for object "sys.sysfilegroupmembers".
DBCC results for 'sys.syslog'.
There are 0 rows in 0 pages for object "sys.syslog".
DBCC results for 'sys.syslogins'.
There are 0 rows in 0 pages for object "sys.syslogins".
DBCC results for 'sys.sysmail'.
There are 0 rows in 0 pages for object "sys.sysmail".
DBCC results for 'sys.sysmailprofile'.
There are 0 rows in 0 pages for object "sys.sysmailprofile".
DBCC results for 'sys.sysmailprofilemember'.
There are 0 rows in 0 pages for object "sys.sysmailprofilemember".
DBCC results for 'sys.sysmailsubscription'.
There are 0 rows in 0 pages for object "sys.sysmailsubscription".
DBCC results for 'sys.sysmailsubscriptionagent'.
There are 0 rows in 0 pages for object "sys.sysmailsubscriptionagent".
DBCC results for 'sys.sysmailsubscriptionobject'.
There are 0 rows in 0 pages for object "sys.sysmailsubscriptionobject".
DBCC results for 'sys.sysmailsubscriptionobjrefs'.
There are 0 rows in 0 pages for object "sys.sysmailsubscriptionobjrefs".
82 %
Query executed successfully.
LN 111 Col 1 Ch 1 INS
ENG US 18:00 2023/09/20
Ready Search

```

The image displays two separate sessions of Microsoft SQL Server Management Studio (SSMS) running on the same computer. Both sessions are connected to the 'HealthCareDB' database on the local server ('MSSQLSERVER01').

Session 1 (Top Window):

- Query Editor:** Contains the following T-SQL script:

```
SELECT * FROM TreatmentHistory  
--Run DBCC CHECK ON DATABASE---  
DBCC CHECKDB 'HealthCareDB' WITH DATA_PURITY;
```
- Messages Window:** Displays the results of the DBCC CHECKDB command, showing extensive details about index fragmentation and page-level errors across various system and user tables.
- Status Bar:** Shows '0 rows' affected.

Session 2 (Bottom Window):

- Query Editor:** Contains the same T-SQL script as Session 1.
- Messages Window:** Displays the results of the DBCC CHECKDB command, showing extensive details about index fragmentation and page-level errors across various system and user tables.
- Status Bar:** Shows '0 rows' affected.

Both sessions show a similar environment with the Windows taskbar at the bottom displaying the date (2023/09/20), time (18:00), and system status (ENG US). The SSMS interface includes tabs for 'Ready', 'Search', and various toolbars.


```

SQLQuery1.sql - LINGE (User (72)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Object Explorer
SQL HealthCareDB
SELECT * FROM TreatmentHistory
-- Run DBCC CHECK ON DATABASE---
DBCC CHECKDB 'HealthCareDB' WITH DATA_PURITY
82 % Messages
Query executed successfully.
Ready
LN 111 Col 1 Ch 1 INS
28°C Sunny Search
ENG US 2023/09/20 18:00
SQLQuery1.sql - LINGE (User (72)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query Object Explorer
SQL HealthCareDB
SELECT * FROM TreatmentHistory
-- Run DBCC CHECK ON DATABASE---
DBCC CHECKDB 'HealthCareDB' WITH DATA_PURITY
82 % Messages
Query executed successfully.
Ready
LN 111 Col 1 Ch 1 INS
28°C Sunny Search
ENG US 2023/09/20 18:00

```

SQLQuery1.sql - LINGE (User (72)) - Microsoft SQL Server Management Studio

```

SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY

```

82 % Messages

DBCC results for 'sys_plan_persistent_context_settings'.
There are 0 rows in 0 pages for object 'sys_plan_persistent_context_settings'.
DBCC results for 'sys_plan_persistent_query_plan'.
There are 0 rows in 0 pages for object 'sys_plan_persistent_query_plan'.
DBCC results for 'sys_plan_persistent_query_replacement_parameterization'.
There are 0 rows in 0 pages for object 'sys_plan_persistent_query_text'.
DBCC results for 'sys_persistent_message_stack'.
There are 0 rows in 0 pages for object 'sys_persistent_message_stack'.
DBCC results for 'sys_persistent_message_stack_log_text'.
DBCC results for 'sys_persistent_message_stack_text'.
DBCC results for 'sys_persistent_message_stack_text_log_text'.
DBCC results for 'sys_persistent_message_table'.
DBCC results for 'sys_persistent_message_table_text'.
DBCC results for 'patients'.
DBCC results for 'Doctors'.
DBCC results for 'Appointments'.
There are 0 rows in 1 page for object 'TreatmentHistory'.
DBCC results for 'sys_quote_message_1977090079'.
There are 0 rows in 5 pages for object 'sys_quote_message_1977090079'.
There are 0 rows in 0 pages for object 'sys_quote_message_2000000004'.
There are 0 rows in 5 pages for object 'sys_quote_message_2000000004'.
There are 0 rows in 0 pages for object 'sys_quote_message_2041000000'.
There are 0 rows in 0 pages for object 'sys_quote_message_2041000000'.
There are 0 rows in 0 pages for object 'sys_quote_message_2100000000'.
There are 0 rows in 0 pages for object 'sys_quote_message_2100000000'.
There are 0 rows in 0 pages for object 'sys_quote_message_2100000000'.
DBCC results for 'sys_finance_update'.
There are 0 rows in 0 pages for object 'sys_finance_update'.
DBCC found 0 allocation errors and 0 consistency errors in database 'HealthCareDB'.
DBCC execution completed, 0 logical read(s), 0 error(s).
Completion time: 2023-09-20T21:59:23.4000000+02:00

Query executed successfully.

Ready 28°C Sunny LINGE (User (72)) - Microsoft SQL Server Management Studio

B

Issues can arise from inconsistent data types or values within a column.

****was not sure about this section sir****

C**INPUT**

--To monitor database activity---

```
SELECT * FROM sys.dm_exec_sessions;
```

OUTPUT

session_id	login_time	host_name	program_name	host_process_id	client_version	client_interface_name	security_id	login_name	nt_domain	nt_user_name	status	context_info	cpu_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_request_start_l
1	2023-09-20 07:56:38.717	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
2	2023-09-20 07:56:38.717	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
3	2023-09-20 07:56:38.777	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
4	2023-09-20 07:56:39.123	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
5	2023-09-20 07:56:39.137	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
6	2023-09-20 07:56:39.137	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
7	2023-09-20 07:56:39.170	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
8	2023-09-20 07:56:39.170	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
9	2023-09-20 07:56:39.220	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:3
10	2023-09-20 07:56:39.220	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:4
11	2023-09-20 07:56:39.250	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:4
12	2023-09-20 07:56:39.250	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:4
13	2023-09-20 07:56:39.250	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:4
14	2023-09-20 07:56:39.250	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:4
15	2023-09-20 07:56:41.647	NULL	NULL	NULL	NULL	NULL	0x01	sa	NULL	NULL	sleeping	Ds	0	0	0	0	0	2023-09-20 07:56:4

Query executed successfully.

File Edit View Query Project Tools Window Help

New Query Object Explorer

HealthCareDB

```
--vs282D.sql - LINN-NGE \User (59)* - Microsoft SQL Server Management Studio
SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE...
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity...
SELECT * FROM sys.dm_exec_sessions;
```

Results Messages

l_u_interface_name	security_id	login_name	rl_u_domain	rl_u_name	status	context_info	cput_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_request_start_time	last_request_end_time	reads	writes	logical_reads	rl_user_process	text_size	language	date_format	date_first	quoted_identifier	arithabort	ansi_null_dflt_on	ansi_defaults	ansi_warnings	ansi_padding	an
1	LL	sa	NULL	NULL	sleeping	0x	0	0	0	0	0	2023-09-20 07:56:38.717	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
2	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:38.727	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
3	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:38.777	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
4	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.123	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
5	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.137	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
6	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.137	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
7	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.170	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
8	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.170	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
9	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.220	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
10	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:40.823	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
11	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.250	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
12	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:40.803	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
13	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.250	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
14	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:39.250	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	
15	LL	0x01	sa	NULL	NULL	sleeping	0x	0	0	0	0	2023-09-20 07:56:41.847	NULL	0	0	0	0	4096	us_english	m		0	0	0	0	0	0	

Query executed successfully.

Ready 21°C Partly cloudy

LNINN-NGE \User (59) HealthCareDB 00:00:00 59 rows

File Edit View Query Project Tools Window Help

New Query Object Explorer

HealthCareDB

```
--vs282D.sql - LINN-NGE \User (59)* - Microsoft SQL Server Management Studio
SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE...
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity...
SELECT * FROM sys.dm_exec_sessions;
```

Results Messages

l_u_interface_name	security_id	login_name	rl_u_domain	rl_u_name	status	context_info	cput_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_request_start_time	last_request_end_time	reads	writes	logical_reads	rl_user_process	text_size	language	date_format	date_first	quoted_identifier	arithabort	ansi_null_dflt_on	ansi_defaults	ansi_warnings	ansi_padding	an
1	0		0	0	0	2023-09-20 07:56:38.717	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0		0	0	0	2023-09-20 07:56:38.727	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0		0	0	0	2023-09-20 07:56:38.777	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0		0	0	0	2023-09-20 07:56:39.123	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0		0	0	0	2023-09-20 07:56:39.137	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0		0	0	0	2023-09-20 07:56:39.137	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0		0	0	0	2023-09-20 07:56:39.170	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0		0	0	0	2023-09-20 07:56:39.170	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0		0	0	0	2023-09-20 07:56:39.220	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0		0	0	0	2023-09-20 07:56:40.823	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0		0	0	0	2023-09-20 07:56:40.823	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0		0	0	0	2023-09-20 07:56:40.823	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0		0	0	0	2023-09-20 07:56:39.250	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0		0	0	0	2023-09-20 07:56:39.250	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0		0	0	0	2023-09-20 07:56:41.847	NULL	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Query executed successfully.

Ready 21°C Partly cloudy

LNINN-NGE \User (59) HealthCareDB 00:00:00 59 rows

-vs282D.sql - LINGE \ MSSQLSERVER01\HealthCareDB (LINE) [User (59)] - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

HealthCareDB

New Query

Execute

Quick Launch (Ctrl+Q)

Object Explorer

```
14, 19, 8, 2022-01-15'', 'High Blood Pressure', 'Lifestyle Changes');

(15, 19, 11, 2022-01-18'', 'COPD', 'Bronchodilators');

SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE---

DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---

SELECT * FROM sys.dm_exec_sessions;
```

Results [Messages]

process_id	session_id	last_request_start_time	last_request_end_time	reads	writes	logical_reads	is_user_process	len_kb_size	language	date_format	date_first	quoted_identifier	arithmetic	ansi_null_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nulls	concat_null_yields_null	trans
1	0	2022-09-20 07:58:30.717	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
2	0	2022-09-20 07:58:30.727	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
3	0	2022-09-20 07:58:30.777	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
4	0	2022-09-20 07:58:30.127	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
5	0	2022-09-20 07:58:30.137	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
6	0	2022-09-20 07:58:30.137	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
7	0	2022-09-20 07:58:30.178	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
8	0	2022-09-20 07:58:30.200	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
9	0	2022-09-20 07:58:30.220	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
10	0	2022-09-20 07:58:30.823	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
11	0	2022-09-20 07:58:30.825	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
12	0	2022-09-20 07:58:30.850	NULL	0	0	0	0	4096	us_english	mdy	7	1	0	1	0	1	1	1	1	2
13	0	2022-09-20 07:58:30.259	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
14	0	2022-09-20 07:58:30.259	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2
15	0	2022-09-20 20:45:41.847	NULL	0	0	0	0	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2

Query executed successfully.

Ready

21°C Partly cloudy

LN 117 Col 36 Ch 36 INS

Quick Launch (Ctrl+Q)

LINGE \ MSSQLSERVER01 (15... LINGE \ User (59) HealthCareDB 00:00:00 59 rows

File Edit View Query Project Tools Window Help

Object Explorer

HealthCareDB

New Query

Execute

Quick Launch (Ctrl+Q)

Object Explorer

```
14, 19, 8, 2022-01-15'', 'High Blood Pressure', 'Lifestyle Changes');

(15, 19, 11, 2022-01-18'', 'COPD', 'Bronchodilators');

SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE---

DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---

SELECT * FROM sys.dm_exec_sessions;
```

Results [Messages]

_user_process	text_size	language	date_format	datefirst	quoted_identifier	arithmetic	ansi_null_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nuls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev_error	original_security_id	original_
1	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
2	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
3	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
4	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
5	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
6	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
7	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
8	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
9	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
10	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
11	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
12	4096	us_english	mdy	7	1	0	1	0	1	1	1	2	-1	0	0	0x01	sa		
13	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
14	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		
15	4096	us_english	mdy	7	0	0	0	0	0	0	0	2	-1	0	0	0x01	sa		

Query executed successfully.

LN 117 Col 36 Ch 3 Query executed successfully.

Ready

21°C Partly cloudy

Quick Launch (Ctrl+Q)

LIN 117 Col 36 Ch 3 Query executed successfully.

vs282D.sql - LINN-NGE\user (59)* - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File Object Explorer
HealthCareDB | Execute New Query Task List Find Replace Properties Refresh
--vs282D.sql - LINN-NGE\user (59)* - Object Explorer
(14, 19, 8, '2022-01-15', 'High Blood Pressure', 'Lifestyle Changes'),
(15, 19, 11, '2022-01-18', 'COPD', 'Bronchodilators')

SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE---

DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---

SELECT * FROM sys.dm_exec_sessions;

```

Results Messages

_nuls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev_error	original_security_id	original_login_name	last_successful_logon	last_unsuccessful_logon	unsuccessful_logons	group_id	database_id	authenticating_database_id	open_transaction_count	page_server_reads
1	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
2	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
3	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
4	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
5	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
6	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
7	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
8	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
9	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
10	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	1	NULL	0	0	
11	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
12	1	2	-1	0	0	0	0x01	sa	NULL	NULL	1	1	NULL	0	0	
13	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
14	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
15	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	1	NULL	0	0	

Query executed successfully.

Ready 21°C Partly cloudy LINN-NGE\user (59) HealthCareDB 00:00:00 59 rows

vs282D.sql - LINN-NGE\user (59)* - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File Object Explorer
HealthCareDB | Execute New Query Task List Find Replace Properties Refresh
--vs282D.sql - LINN-NGE\user (59)* - Object Explorer
(14, 19, 8, '2022-01-15', 'High Blood Pressure', 'Lifestyle Changes'),
(15, 19, 11, '2022-01-18', 'COPD', 'Bronchodilators')

SELECT * FROM TreatmentHistory
--Run DBCC CHECK ON DATABASE---

DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---

SELECT * FROM sys.dm_exec_sessions;

```

Results Messages

_nuls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev_error	original_security_id	original_login_name	last_successful_logon	last_unsuccessful_logon	unsuccessful_logons	group_id	database_id	authenticating_database_id	open_transaction_count	page_server_reads
1	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
2	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
3	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
4	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
5	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
6	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
7	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
8	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
9	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
10	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	1	NULL	0	0	
11	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
12	1	2	-1	0	0	0	0x01	sa	NULL	NULL	1	1	NULL	0	0	
13	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
14	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	0	NULL	0	0	
15	0	2	-1	0	0	0	0x01	sa	NULL	NULL	1	1	NULL	0	0	

Query executed successfully.

Ready 21°C Partly cloudy LINN-NGE\user (59) HealthCareDB 00:00:00 59 rows

```
SELECT * FROM sys.dm_exec_requests;
```

session_id	request_id	start_time	status	command	sql_handle	statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type	
1	0	2023-09-20 07:56:39.170	background	XIO RETRIEVE WORKER	NULL	NULL	NULL	NULL	0	1	NULL	0	SLEEP_TASK	365	SLEEP_TASK	
2	0	2023-09-20 07:56:39.220	background	XIO RELEASE REtrieval_WORKER	NULL	NULL	NULL	NULL	0	1	NULL	0	SLEEP_TASK	469	SLEEP_TASK	
3	0	2023-09-20 07:56:39.277	background	XTP_CKPT_AGENT	NULL	NULL	NULL	NULL	0	1	NULL	0	WAIT_XTP_HOST_WAIT	53429679	WAIT_XTP_HOST_WAIT	
4	0	2023-09-20 07:56:39.123	background	RECOVERY WRITER	NULL	NULL	NULL	NULL	0	1	NULL	0	DIRTY_PAGE_POLL	56	DIRTY_PAGE_POLL	
5	0	2023-09-20 07:56:39.137	background	LAZY WRITER	NULL	NULL	NULL	NULL	0	1	NULL	0	LAZYWRITER_SLEEP	319	LAZYWRITER_SLEEP	
6	0	2023-09-20 07:56:39.137	background	PVS_PREAMLOCATOR	NULL	NULL	NULL	NULL	0	1	NULL	0	PVS_PREALLOCATE	52429992	PVS_PREALLOCATE	
7	0	2023-09-20 07:56:39.137	background	LOG WRITER	NULL	NULL	NULL	NULL	0	1	NULL	0	LOGMGR_QUEUE	9	LOGMGR_QUEUE	
8	0	2023-09-20 07:56:39.137	background	LOG WRITER	NULL	NULL	NULL	NULL	0	1	NULL	0	LOGMGR_QUEUE	9	LOGMGR_QUEUE	
9	0	2023-09-20 07:56:39.220	background	LOCK MONITOR	NULL	NULL	NULL	NULL	0	1	NULL	0	REQUEST_FOR_DEADLOCK_SEARCH	3749	REQUEST_FOR_DEADLOCK_SEARCH	
10	0	2023-09-20 07:56:40.020	background	SIGNAL HANDLER	NULL	NULL	NULL	NULL	0	1	1	NULL	0	KSOURCE_WAKEUP	52427917	KSOURCE_WAKEUP
11	0	2023-09-20 07:56:40.020	background	RESOURCE MONITOR	NULL	NULL	NULL	NULL	0	1	NULL	0	NULL	0	PREEMPTIVE_XE_CALL	
12	0	2023-09-20 07:56:40.250	background	XE DISPATCHER	NULL	NULL	NULL	NULL	0	1	NULL	0	BROKER_TRANSMITTER	52427931	BROKER_TRANSMITTER	
13	0	2023-09-20 07:56:40.250	background	XE DISPATCHER	NULL	NULL	NULL	NULL	0	1	NULL	0	XE_DISPATCHER_WAIT	57998	XE_DISPATCHER_WAIT	
14	0	2023-09-20 07:56:39.250	background	XE TIMER	NULL	NULL	NULL	NULL	0	1	NULL	0	XE_TIMER_EVENT	4816	XE_TIMER_EVENT	
15	0	2023-09-20 22:26:58.253	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
16	0	2023-09-20 22:26:58.253	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
17	0	2023-09-20 22:26:01.730	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
18	0	2023-09-20 22:26:01.730	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
19	0	2023-09-20 22:26:01.730	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
20	0	2023-09-20 22:26:06.737	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
21	0	2023-09-20 22:26:06.737	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	
22	0	2023-09-20 22:26:21.760	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS	

Query executed successfully.

session_id	request_id	start_time	status	command	sql_handle	statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type
8	0	2023-09-20 07:56:39.170	background	LOG WRITER	NULL	NULL	NULL	NULL	0	1	NULL	0	LOGMGR_QUEUE	9	LOGMGR_QUEUE
9	0	2023-09-20 07:56:39.220	background	LOCK MONITOR	NULL	NULL	NULL	NULL	0	1	NULL	0	REQUEST_FOR_DEADLOCK_SEARCH	3749	REQUEST_FOR_DEADLOCK_SEARCH
10	0	2023-09-20 07:56:40.823	background	SIGNAL HANDLER	NULL	NULL	NULL	NULL	1	1	NULL	0	KSOURCE_WAKEUP	52427917	KSOURCE_WAKEUP
11	0	2023-09-20 07:56:39.250	background	RESOURCE MONITOR	NULL	NULL	NULL	NULL	0	1	NULL	0	NULL	0	PREEMPTIVE_XE_CALL
12	0	2023-09-20 07:56:39.250	background	XE DISPATCHER	NULL	NULL	NULL	NULL	0	1	NULL	0	BROKER_TRANSMITTER	52427931	BROKER_TRANSMITTER
13	0	2023-09-20 07:56:39.250	background	XE DISPATCHER	NULL	NULL	NULL	NULL	0	1	NULL	0	XE_DISPATCHER_WAIT	57998	XE_DISPATCHER_WAIT
14	0	2023-09-20 07:56:39.250	background	XE TIMER	NULL	NULL	NULL	NULL	0	1	NULL	0	XE_TIMER_EVENT	4816	XE_TIMER_EVENT
15	0	2023-09-20 22:26:06.253	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
16	0	2023-09-20 07:56:38.167	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
17	0	2023-09-20 22:26:01.730	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
18	0	2023-09-20 22:26:01.730	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
19	0	2023-09-20 22:26:01.730	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
20	0	2023-09-20 22:26:06.737	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
21	0	2023-09-20 22:26:06.737	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS
22	0	2023-09-20 22:26:21.760	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	MISCELLANEOUS	0	MISCELLANEOUS

Query executed successfully.

```

~vs282D.sql - LINGE\NCE [User (59)*] - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
... HealthCareDB | Execute | New Query | Object Explorer | Quick Launch (Ctrl+Q) ...
--Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

```

Results [Messages]															
session_id	request_id	start_time	status	command	sql_handle	statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type
22	22	2023-09-20 22:26:21.760	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
23	23	0	2023-09-20 22:26:21.760	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
24	24	0	2023-09-20 22:26:21.760	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
25	25	0	2023-09-20 22:26:21.760	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
26	26	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
27	27	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
28	28	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
29	29	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
30	30	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
31	31	0	2023-09-20 22:15:11.337	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
32	32	0	2023-09-20 07:56:30.677	background	TRACE QUEUE TASK	NULL	NULL	NULL	1	1	NULL	0	SQLTRACE_INCREMENTAL_FLUSH...	1252	SQlTRACE_INCREMENTAL_FLUSH...
33	33	0	2023-09-20 07:56:30.677	background	SYSTEM_HEALTH_MONITOR	NULL	NULL	NULL	0	1	NULL	0	SP_SERVER_DIAGNOSTICS_SLEEP	38107	SP_SERVER_DIAGNOSTICS_SLEEP
34	34	0	2023-09-20 07:56:30.677	background	RECEIVE	NULL	NULL	NULL	0	1	NULL	0	NULL	0	MEMORY_ALLOCATION
35	35	0	2023-09-20 07:56:30.677	background	CHECKPOINT	NULL	NULL	NULL	1	1	NULL	0	CHECKPOINT_QUEUE	722415	CHECKPOINT_QUEUE
36	36	0	2023-09-20 07:56:30.677	background	LOG POOL MEMORY NOTIFICAT...	NULL	NULL	NULL	1	1	NULL	0	ONDemand_Task_Queue	27495	ONDemand_Task_Queue
37	37	0	2023-09-20 07:56:40.803	background	BRRK EVENT HANDLR	NULL	NULL	NULL	1	1	NULL	0	BROKER_EVENTHANDLER	28752518	BROKER_EVENTHANDLER
38	38	0	2023-09-20 07:56:40.803	background	BRRK TASK	NULL	NULL	NULL	1	1	NULL	0	BROKER_TO_FLUSH	293	BROKER_TO_FLUSH
39	39	0	2023-09-20 07:56:40.803	background	BRRK TASK	NULL	NULL	NULL	1	1	NULL	0	HADR_FILESTREAM_IOMGR_IOCO...	465	HADR_FILESTREAM_IOMGR_IOCO...
40	40	0	2023-09-20 07:56:40.803	background	BRRK TASK	NULL	NULL	NULL	1	1	NULL	0	BROKER_TRANSMITTER	52427936	BROKER_TRANSMITTER
41	41	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
42	42	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
43	43	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
44	44	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
45	45	0	2023-09-20 22:26:51.820	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
46	46	0	2023-09-20 22:25:11.337	sleeping	TASK MANAGER	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS

Query executed successfully.

File Edit View Query Project Tools Window Help

File Edit View Query Project Tools Window Help

File Edit View Query Project Tools Window Help

```
--vs282D.sql - LINN-NGE \User (59)* - Microsoft SQL Server Management Studio
--Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;|
```

session_id	request_id	start_time	status	command	sql_handle	statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type	
41	41	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
42	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
43	43	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
44	44	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
45	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
46	46	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
47	47	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
48	48	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
49	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
50	50	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
51	52	0	2023-09-20 22:26:51.830	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
52	53	0	2023-09-20 22:26:51.830	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
53	54	0	2023-09-20 22:26:51.830	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
54	55	0	2023-09-20 22:27:51.920	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
55	59	0	2023-09-20 22:30:19.863	running	SELECT	0x02000... 0	66	0x060010... 16	1	1	CEOF0C14...	0	NULL	0	MEMORY_ALLOCATION	
56	66	0	2023-09-20 22:26:51.417	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS

Query executed successfully.

Ready

18°C Clear

File Edit View Query Project Tools Window Help

File Edit View Query Project Tools Window Help

File Edit View Query Project Tools Window Help

```
--vs282D.sql - LINN-NGE \User (59)* - Microsoft SQL Server Management Studio
--Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;|
```

session_id	request_id	start_time	status	command	sql_handle	statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type	
42	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
43	43	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	
44	44	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
45	45	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
46	46	0	2023-09-20 22:26:51.830	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
47	47	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
48	48	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
49	49	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
50	50	0	2023-09-20 22:26:51.827	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
51	52	0	2023-09-20 22:26:51.830	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
52	53	0	2023-09-20 22:26:51.830	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
53	54	0	2023-09-20 22:27:51.923	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
54	55	0	2023-09-20 22:27:51.923	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS
55	59	0	2023-09-20 22:30:19.863	running	SELECT	0x02000... 0	66	0x060010... 16	1	1	CEOF0C14...	0	NULL	0	MEMORY_ALLOCATION	
56	66	0	2023-09-20 22:26:51.417	sleeping	TASK MANAGER	NULL	NULL	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS

Query executed successfully.

Ready

18°C Clear

File Edit View Query Project Tools Window Help

-vs282D.sql - LINGE \User (59)* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

HealthCareDB | Execute Quick Launch (Ctrl+Q)

Object Explorer

```
SELECT * FROM TreatmentHistory
---Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;
```

82 %

Results Messages

statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type	wait_resource	open_transaction_count	open_resultset_count	transaction_id	context_info	
42	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
43	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
44	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
45	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
46	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
47	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
48	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
49	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
50	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
51	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
52	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
53	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
54	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	
55	0	66	0x000010...	16	1	CEF00C14...	0	NULL	0	MEMORY_ALLOCATION_EXT	0	1	0	380248	0
56	NULL	NULL	1	1	NULL	0	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	

56 rows

Query executed successfully.

Ready

LINGE \User (59) | MSSQLSERVER01 (15... | LINGE \User (59) | HealthCareDB | 00:00:00 | 22:31 | 2023/09/20

18°C Clear

Search

Ln 95 Col 36 Ch 36 INS

ENG US 22:31 2023/09/20

File Edit View Query Project Tools Window Help

New Query Object Explorer

```
--vs282D.sql - LINN-NGE\user (User (59)) - Microsoft SQL Server Management Studio
```

File Edit View Project Tools Window Help

New Query Object Explorer

```
--Run DBCC CHECK ON DATABASE--  
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;  
--To monitor database activity--  
SELECT * FROM sys.dm_exec_sessions;  
SELECT * FROM sys.dm_exec_requests;
```

Results Messages

locking_session_id	wait_type	last_wait_type	wait_resource	open_transaction_count	open_resultset_count	transaction_id	context_info	percent_complete	estimated_completion_time	cpu_time	total_elapsed_time	scheduler_id	task_address
42	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
43	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
44	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
45	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
46	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
47	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
48	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
49	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
50	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
51	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
52	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
53	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
54	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000
55	NULL	0	MEMORY_ALLOCATION_EXT	0	1	0	380248	0x	0	0	1	6	2
56	NULL	0	MISCELLANEOUS	0	1	0	NULL	0	0	0	0	NULL	0x00000000

Query executed successfully.

Ready 18°C Clear Search Col 36 Ch 36 INS

File Edit View Project Tools Window Help

New Query Object Explorer

```
--vs282D.sql - LINN-NGE\user (User (59)) - Microsoft SQL Server Management Studio
```

File Edit View Project Tools Window Help

New Query Object Explorer

```
--Run DBCC CHECK ON DATABASE--  
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;  
--To monitor database activity--  
SELECT * FROM sys.dm_exec_sessions;  
SELECT * FROM sys.dm_exec_requests;
```

Results Messages

open_resultset_count	transaction_id	context_info	percent_complete	estimated_completion_time	cpu_time	total_elapsed_time	scheduler_id	task_address	reads	writes	logical_reads	text_size	language	date_format	date_fst	quoted_identifier	arithabort	ansi_null_dfl_on	ansi_defau
42	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	70	4096	us_english	mdy	7	0	0	0	
43	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	4096	4096	us_english	mdy	7	0	0	0	
44	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	334	4096	us_english	mdy	7	0	0	0	
45	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	142	4096	us_english	mdy	7	0	0	0	
46	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	402	4096	us_english	mdy	7	0	0	0	
47	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	72	4096	us_english	mdy	7	0	0	0	
48	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	140	4096	us_english	mdy	7	0	0	0	
49	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	70	4096	us_english	mdy	7	0	0	0	
50	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	383	4096	us_english	mdy	7	0	0	0	
51	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	142	4096	us_english	mdy	7	0	0	0	
52	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	392	4096	us_english	mdy	7	0	0	0	
53	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	270	4096	us_english	mdy	7	0	0	0	
54	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	34	4096	us_english	mdy	7	0	0	0	
55	1	380248	0x	0	0	1	6	2	0x000001F6F448C8	0	0	257	21474	us_english	mdy	7	1	1	0
56	1	NULL	0	0	0	0	NULL	0x0000000000000000	0	0	692	4096	us_english	mdy	7	0	0	0	

Query executed successfully.

Ready 18°C Clear Search Col 95 Ch 36 INS

File Edit View Query Project Tools Window Help

HealthCareDB | Execute | New Query | Object Explorer | Properties | Task List | Home | Help |

```
--vs282D.sql - LINN-NGE\user (59)* - Microsoft SQL Server Management Studio
SELECT * FROM TreatmentHistory
---Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;|
```

Results Messages

k_address	reads	writes	logical_reads	text_size	language	date_format	date_first	quoted_id_identifier	ansi_abort	ansi_null_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nulls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev.
42	0	0	70	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
43	0	106	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
44	0	334	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
45	0	142	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
46	0	482	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
47	0	72	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
48	0	140	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
49	0	70	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
50	0	303	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
51	0	142	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
52	0	392	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
53	0	270	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
54	0	34	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0
55	0	257	21474...	4096	us_english	mdy	7	1	1	1	0	1	1	1	1	2	-1	0	1	0
56	0	692	4096	4096	us_english	mdy	7	0	0	0	0	0	0	0	0	2	-1	0	0	0

Query executed successfully.

Ready 18°C Clear Search Ln 95 Col 36 Ch 36 INS ENG US 22:31 2023/09/20

File Edit View Query Project Tools Window Help

HealthCareDB | Execute | New Query | Object Explorer | Properties | Task List | Home | Help |

```
--vs282D.sql - LINN-NGE\user (59)* - Microsoft SQL Server Management Studio
SELECT * FROM TreatmentHistory
---Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;|
```

Results Messages

_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nulls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev_error	nest_level	granted_query_memory	executing_managed_code	group_id	query_hash	query_plan_hash	statement_sql_handle	stolen
42	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
43	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
44	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
45	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
46	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
47	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
48	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
49	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
50	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
51	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
52	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
53	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
54	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL
55	0	1	1	1	1	2	-1	0	1	0	0	0	0	2	0x39TE0...	0xE3AD167582...	NULL	NULL
56	0	0	0	0	0	2	-1	0	0	1	0	0	0	1	NULL	NULL	NULL	NULL

Query executed successfully.

Ready 18°C Clear Search Ln 95 Col 36 Ch 36 INS ENG US 22:31 2023/09/20

-vs282D.sql - LINGE \User (59)* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

HealthCareDB | Execute | Quick Launch (Ctrl+Q)

Object Explorer

```
~vs282D.sql - LINGE \User (59)* Object Explorer
SELECT * FROM TreatmentHistory
---Run DBCC CHECK ON DATABASE---
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity---
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;
```

82 %

Results Messages

lock_timeout	block_priority	row_count	prev_error	next_level	granted_query_memory	executing_managed_code	group_id	query_hash	query_plan_hash	statement_sql_handle	statement_context_id	dop	parallel_worker_count	external_script_request_id	is_resumable	page_resource	page_id
42	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
43	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
44	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
45	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
46	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
47	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
48	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
49	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
50	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
51	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
52	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
53	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
54	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	
55	-1	0	1	0	0	0	0	2	0x397E0...0x53D167582...	NULL	NULL	1	NULL	NULL	0	NULL	0
56	-1	0	0	1	0	0	1	NULL	NULL	NULL	1	NULL	NULL	0	NULL	0	

56 rows

Query executed successfully.

Ready

LINGE \User (59) | MSSQLSERVER01 (15... | LINGE \User (59) | HealthCareDB | 00:00:00 | 22:31 | 2023/09/20

18°C Clear

Search

Ln 95 Col 36 Ch 36 INS

ENG US 22:31 2023/09/20

Transactions and DMVs

A and B

INPUT

```
-- new patient record--  
INSERT INTO Patients (PatientID, FirstName, LastName, Gender, DateOfBirth,  
ContactNumber, Address)  
VALUES  
(0, 'Lin', 'Lin', 'Female', '2004-05-10', '12345678', '568 Oak St.');
```

```
-- appointment for the patient.  
INSERT INTO Appointments (AppointmentID, PatientID, DoctorID, AppointmentDate,  
AppointmentTime)  
VALUES  
(0, 3, 1, '2023-08-15', '12:00:00');
```

```
-- treatment entry for the patient--  
INSERT INTO TreatmentHistory (TreatmentID, PatientID, DoctorID, TreatmentDate ,  
Diagnosis, Prescription)  
VALUES  
(0, 3, 1, '2023-11-15', 'Allergies', 'Allergex 500mg');
```

```
--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;
```

The screenshot shows the Microsoft SQL Server Management Studio interface. A query window is open with the following content:

```
DBCC CHECKDB('HealthCareDB') WITH DATA_PURITY;
--To monitor database activity...
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;
--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;
```

The results pane displays a table titled "Messages" with the following data:

transaction_id	name	transaction_begin_time	transaction_type	transaction_uow	transaction_state	transaction_status	transaction_status2	dtc_state	dtc_status	dtc_isolation_level	filestream_transaction_id
1	534	workable	2023-09-20 07:56:40.810	2	NULL	2	0	0	0	0	NULL
2	537	workable	2023-09-20 07:56:40.810	2	NULL	2	0	0	0	0	NULL
3	539	workable	2023-09-20 07:56:40.810	2	NULL	2	0	0	0	0	NULL
4	541	workable	2023-09-20 07:56:40.810	2	NULL	2	0	0	0	0	NULL
5	544	workable	2023-09-20 07:56:40.810	2	NULL	2	0	0	0	0	NULL
6	547	workable	2023-09-20 07:56:40.810	2	NULL	2	0	0	0	0	NULL

Below the table, a message indicates "Query executed successfully." The system tray at the bottom shows the date and time as 2023/09/20 22:44.

```
-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;
```

The screenshot shows three separate sessions in Microsoft SQL Server Management Studio (MSSQLSERVER01) running the same set of SQL commands. The queries are as follows:

```

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOMSGS;

```

The results of the first query (sys.dm_tran_locks) are displayed in a table:

resource_type	resource_subtype	resource_database_id	resource_description	resource_associated_entity_id	resource_lock_partition	request_mode	request_type	request_status	request_reference_count	request_lifetime	request_session_id	request_exec_context_id	request_request_id	request_owner_type
DATABASE		16		0	0	S	LOCK	GRANT	1	0	59	0	0	SHARED_TRANSACTION

The status bar at the bottom of each window indicates "Query executed successfully." and "1 rows".

The screenshot shows a Microsoft SQL Server Management Studio (SSMS) window. The title bar reads "vs282D.sql - LINGE \ MSSQLSERVER01\HealthCareDB (LINGE \ User (59)) - Microsoft SQL Server Management Studio". The main area contains a query window with the following T-SQL code:

```
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSGGS;
```

The results pane shows a single row of data from the DBCC CHECKDB command:

	request_mode	request_type	request_status	request_reference_count	request_lifetime	request_session_id	request_exec_context_id	request_request_id	request_owner_type	request_owner_id	request_owner_guid	request_owner_lockspace_id	lock_owner_address
1	S	LOCK	GRANT	1	0	59	0	0	SHARED_TRANSACTION_WORKSPACE	0	0000000-0000-0000-0000-000000000000	0x000001EF858710A0.0	0x000001EF7FA72BC0

At the bottom of the SSMS window, a message says "Query executed successfully." The taskbar at the bottom of the screen also displays this message. The system tray shows the date and time as "2023/09/22 16:18", the weather as "Sunny 32°C", and the language as "ENG US".

```
-- queries being executed by the transaction.  
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
```

File Edit View Query Project Tools Window Help

File Edit View Project Tools Window Help

File Edit View Project Tools Window Help

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

Results Messages

session_id	login_time	host_name	program_name	host_process_id	client_version	client_interface_name	security_id	login_name	nt_domain	nt_user_name	status	context_info	cpu_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_update_time
59	2023-09-22 14:06:03.167	LINGE	Microsoft SQL Server Management Studio - Query	29104	7	Net SqlClient Data Provider	0x010500000000000515000005235288BA0808BCF7A95...	LINGE	LINGE	User	running	0x	202	4				

Query executed successfully.

Ready 32°C Sunny Search L 136 C 62 Ch 62 INS 16:20 ENG US 2023/09/22

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

Results Messages

host_process_id	client_version	client_interface_name	security_id	login_name	nt_domain	nt_user_name	status	context_info	cpu_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_update_time
29104	7	Net SqlClient Data Provider	0x010500000000000515000005235288BA0808BCF7A95...	LINGE	LINGE	User	running	0x	202	4	770	1153	2	2023-09-22 14:06:03.167

Query executed successfully.

Ready 32°C Sunny Search L 136 C 62 Ch 62 INS 16:20 ENG US 2023/09/22

The screenshot shows the Microsoft SQL Server Management Studio interface. In the top-left pane, there is a file tree with a node for 'vs282D.sql'. The main window has a title bar 'vs282D.sql - LINGE\lin... \MSSQLSERVER01.HealthCareDB (LINE\lin... \User (59)) - Microsoft SQL Server Management Studio'. The menu bar includes File, Edit, View, Query, Project, Tools, Window, Help. The toolbar contains various icons for file operations, queries, and management. The Object Explorer sidebar shows a connection to 'HealthCareDB'.

In the center, there is a large text area containing several SQL queries:

```
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSGOES;
```

Below the text area, there is a progress bar indicating '82 %'. The bottom section is a 'Results' grid titled 'Messages' with one row of data:

	login_name	nt_domain	nt_user_name	status	context_info	cpu_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_request_start_time	last_request_end_time	reads	writes	logical_reads	is_user_process	text		
1	0000000515000005235288BA0808BCBF7AB5...	LIN...	\User	LIN...	User	running	0x	202	4	770	1163	2	2023-09-22 16:19:50.743	2023-09-22 16:19:50.740	2103	74	51494	1	214

A message bar at the bottom says 'Query executed successfully.' and indicates '1 rows'.

The taskbar at the bottom shows the Windows Start button, a search bar, and several pinned application icons. The system tray shows the date and time as '2023/09/22 16:20', the location as '32°C Sunny', and language as 'ENG US'.

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Execute New Query Object Explorer

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \User (59) Object Explorer

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

Results Messages

domain	rl_user_name	status	context_info	cpu_time	memory_usage	total_scheduled_time	total_elapsed_time	endpoint_id	last_request_start_time	last_request_end_time	reads	writes	logical_reads	is_user_process	text_size	language	date_format	date_first	quoted_identifier	arithabort
1	User	running	0x	202	4	770	1153	2	2023-09-22 16:19:50.743	2023-09-22 16:19:50.740	2103	74	51494	1	2147483647	us_english	mdy	7	1	1

Query executed successfully.

Ready 32°C Sunny LIN-GE \MSSQLSERVER01 LIN-GE \User (59) HealthCareDB 00:00:00 1 rows

File Edit View Query Project Tools Window Help

Execute New Query Object Explorer

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \User (59) Object Explorer

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

Results Messages

age	total_scheduled_time	total_elapsed_time	endpoint_id	last_request_start_time	last_request_end_time	reads	writes	logical_reads	is_user_process	text_size	language	date_format	date_first	quoted_identifier	arithabort	ansi_null_dflt_on	ansi_defaults	ansi_warnings	ansi_padding
1	770	1153	2	2023-09-22 16:19:50.743	2023-09-22 16:19:50.740	2103	74	51494	1	2147483647	us_english	mdy	7	1	1	0	1	1	

Query executed successfully.

Ready 32°C Sunny LIN-GE \MSSQLSERVER01 LIN-GE \User (59) HealthCareDB 00:00:00 1 rows

LIN-GE \MSSQLS_B\dbo.Patients -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Execute New Query Object Explorer

HealthCareDB

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

82 % Results Messages

	_start_time	last_request_end_time	reads	writes	logical_reads	is_user_process	text_size	language	date_format	date_first	quoted_identifier	arithmetic	ansi_null_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nulls	concat_null_yields_null	transaction_isolation_level	lock_timeout
1	16:19:50.743	2023-09-22 16:19:50.740	2103	74	51494	1	2147483647	us_english	mdy	7	1	1	1	0	1	1	1	2	-1	

Query executed successfully.

Ready 32°C Sunny Search Ln 136 Col 62 Ch 62 INS 16:20 ENG US 2023/09/22

LIN-GE \MSSQLS_B\dbo.Patients -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Execute New Query Object Explorer

HealthCareDB

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

82 % Results Messages

s	text_size	language	date_format	date_first	quoted_identifier	arithmetic	ansi_null_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nulls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev_error	original_security_id
1	2147483647	us_english	mdy	7	1	1	0	1	1	1	1	2	-1	0	1	0	0x0105000000000000515000000523528BE	

Query executed successfully.

Ready 32°C Sunny Search Ln 136 Col 62 Ch 62 INS 16:20 ENG US 2023/09/22

LINGE [~vs282D.sql - LINGE \MSSQLSERVER01\HealthCareDB (LINGE \User (59)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File Object Explorer
LINGE \MSSQLS_B \dbo.Patients -vs282D.sql - LIN... NGE \User (59) Execute
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOMSGS;

```

Results Messages

	ansi_nul_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nulls	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	prev_error	original_security_id	original_login_name	last_successful_logon	last_unsuccessful_logon
1	1	0	1	1	1	2	-1	0	1	0	0	0x0105000000000005150000005235288BA080BCF7AB5...	LINGE \User	NULL	NULL

Query executed successfully.

LINGE [~vs282D.sql - LINGE \MSSQLSERVER01\HealthCareDB (LINGE \User (59)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File Object Explorer
LINGE \MSSQLS_B \dbo.Patients -vs282D.sql - LIN... NGE \User (59) Execute
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOMSGS;

```

Results Messages

	lock_timeout	deadlock_priority	row_count	prev_error	original_security_id	original_login_name	last_successful_logon	last_unsuccessful_logon	unsuccessful_logins	group_id	database_id	authenticating_database_id	open_transaction_count	page_server_reads
1	-1	0	1	0	0x0105000000000005150000005235288BA080BCF7AB5...	LINGE \User	NULL	NULL	NULL	2	16	1	0	0

Query executed successfully.

```
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;
```

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59))- Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

HealthCareDB | Execute | New Query | Object Explorer

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

82 % Results Messages

session_id	requested_time	start_time	status	command	sql_handle	statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id
59	0	2023-09-22 10:22:57.920	running	SELECT	0x020000009E3C8137CD430068EB2E72DFA1A81D8FAD931...	0	118	0x0600100009E3C813D062038EF01000001000000000000...	16	1	F30120C6-2701-4A84-903E4B0D5652D749

Query executed successfully.

Ready 32°C Sunny Search In 1 Col 1 INS 16:23 2023/09/22

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59))- Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

HealthCareDB | Execute | New Query | Object Explorer

```

SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

82 % Results Messages

statement_start_offset	statement_end_offset	plan_handle	database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type	wait_resource	open
7CD430068EB2E72DFA1A81D8FAD931...	0	0x0600100009E3C813D062038EF01000001000000000000...	16	1	F30120C6-2701-4A84-903E4B0D5652D749	0	NULL	0	MEMORY_ALLOCATION_EXT		0

Query executed successfully.

Ready 32°C Sunny Search In 1 Col 1 INS 16:23 2023/09/22

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File - New Query - Object Explorer
LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \User (59) - Object Explorer
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

Results Messages

database_id	user_id	connection_id	blocking_session_id	wait_type	wait_time	last_wait_type	wait_resource	open_transaction_count	open_resultset_count	transaction_id	context_info	percent_complete	estimated_completion_time
1	16	1	F3012006-2701-4A84-903E-4B0D69520749	0	0	MEMORY_ALLOCATION_EXT		0	1	668704	0x	0	0

82 %

Query executed successfully.

Ready 32°C Sunny Search LIN 1 Col 1 INS 16:23 2023/09/22

LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File - New Query - Object Explorer
LIN-GE \MSSQLS_B -vs282D.sql - LIN-GE \User (59) - Object Explorer
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
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SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

Results Messages

block_session_id	wait_type	wait_time	last_wait_type	wait_resource	open_transaction_count	open_resultset_count	transaction_id	context_info	percent_complete	estimated_completion_time	cpu_time	total_elapsed_time	scheduler_id	task_address	reads	writes
1	0	0	MEMORY_ALLOCATION_EXT		0	1	668704	0x	0	3	4	0	0	0x000001EF85053848	44	0

82 %

Query executed successfully.

Ready 32°C Sunny Search LIN 1 Col 1 INS 16:23 2023/09/22

LIN-GE \MSSQLS_B\dbo.Patients -vs282D.sql - LIN-GE \MSSQLSERVER01\HealthCareDB (LIN-GE \User (59)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File -> New Query Object Explorer
LIN-GE \MSSQLS_B\dbo.Patients -vs282D.sql - LIN-GE \User (59) Execute
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

82 % Results Messages

transaction_id	context_info	percent_complete	estimated_completion_time	cpu_time	total_elapsed_time	scheduler_id	task_address	reads	writes	logical_reads	text_size	language	date_format	date_first	quoted_identifier	arithabort	ansi_null_dflt_on	ansi_defaults	ansi_warnings
1	0x	0	0	3	4	0	0x000001EF85053848	44	0	257	2147483647	us_english	mdy	7	1	1	1	0	1

Query executed successfully.

Ready 32°C Sunny Search LIN-GE \MSSQLSERVER01 LIN-GE \User (59) HealthCareDB 00:00:00 1 rows 16:23 2023/09/22

LIN-GE \MSSQLS_B\dbo.Patients -vs282D.sql - LIN-GE \User (59) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File -> New Query Object Explorer
LIN-GE \MSSQLS_B\dbo.Patients -vs282D.sql - LIN-GE \User (59) Execute
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

-- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

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SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

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SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSOS;

```

82 % Results Messages

a	total_elapsed_time	scheduler_id	task_address	reads	writes	logical_reads	text_size	language	date_format	date_first	quoted_identifier	arithabort	ansi_null_dflt_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nuls	concat_null_yields_null	transaction_isolation_level	lock_time
1	4	0	0x000001EF85053848	44	0	257	2147483647	us_english	mdy	7	1	1	1	0	1	1	1	2	-1	

Query executed successfully.

Ready 32°C Sunny Search LIN-GE \MSSQLSERVER01 LIN-GE \User (59) HealthCareDB 00:00:00 1 rows 16:23 2023/09/22

```

File Edit View Query Project Tools Window Help
File -> New Query -> Execute -> Object Explorer
LIN-GE \ MSSQLS_B \ dbo.Patients ->vs282D.sql - LIN-NGE \ User (59) - Microsoft SQL Server Management Studio
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSGS;

```

Results Messages

l_usage	date_format	date_first	quoted_identifier	anabort	ansi_null_dfl_on	ansi_defaults	ansi_warnings	ansi_padding	ansi_nuils	concat_null_yields_null	transaction_isolation_level	lock_timeout	deadlock_priority	row_count	pre_error	nest_level	granted_query_memory	executing_managed_code
1	1_english	mdy	?	1	1	0	1	1	1	2	-1	0	1	0	0	0	0	0

Query executed successfully.

```

File Edit View Query Project Tools Window Help
File -> New Query -> Execute -> Object Explorer
LIN-GE \ MSSQLS_B \ dbo.Patients ->vs282D.sql - LIN-NGE \ User (59) - Microsoft SQL Server Management Studio
SELECT * FROM sys.dm_exec_sessions;
SELECT * FROM sys.dm_exec_requests;

--- currently active transactions and their status---
SELECT * FROM sys.dm_tran_active_transactions;

-- locks held by transaction.
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;

-- queries being executed by the transaction.
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;

SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;

DBCC CHECKDB ('HealthCareDB') WITH NO_INFOSGS;

```

Results Messages

k_priority	row_count	pre_error	nest_level	granted_query_memory	executing_managed_code	group_id	query_hash	query_plan_hash	statement_sql_handle	statement_context_id	dop	parallel_worker_count	external_script_request_id	is_resumable	page_resource	page_server_reads
1	0	0	0	0	0	2	0x6A1A983171D5692	0x63AD167562B0AE50	NULL	NULL	1	NULL	NULL	0	NULL	

Query executed successfully.

****NOTES****

-Sir I really tried with this section but along the line I got confused but the effort is there

NO_INFOMSGS and Submission

A

```
DBCC CHECKDB ('HealthCareDB') WITH NO_INFOMSGS;
```

The screenshot shows the Microsoft SQL Server Management Studio interface. In the center pane, there is a query window containing the following T-SQL code:

```
-- currently active transactions and their status--  
SELECT * FROM sys.dm_tran_active_transactions;  
  
-- locks held by transaction.  
SELECT * FROM sys.dm_tran_locks WHERE request_session_id = @@SPID;  
  
-- queries being executed by the transaction.  
SELECT * FROM sys.dm_exec_sessions WHERE session_id = @@SPID;  
SELECT * FROM sys.dm_exec_requests WHERE session_id = @@SPID;  
  
DBCC CHECKDB ('HealthCareDB') WITH NO_INFOMSGS;
```

Below the query window, the 'Messages' pane displays the results of the command:

```
82 % 82 %  
Messages  
Commands completed successfully.  
Completion time: 2023-09-21T22:04:11.4471447+02:00
```

At the bottom of the screen, the taskbar shows the system tray with icons for battery level (17°C), signal strength, and date/time (2023/09/20 23:55).

B

The NO_INFOMSGS option during DBCC CHECKDB is used to suppress informational messages that would otherwise be displayed during the execution of the command. When the DBCC CHECKDB command is run, it can produce several informational messages such as the completion status of individual checks or the progress of the operation. However, these messages do not necessarily indicate any immediate problems with the database. By using the NO_INFOMSGS option, the execution of DBCC CHECKDB command will only display error messages and other critical warning messages that require immediate attention. This can make it easier to quickly identify and resolve issues with a database, without being distracted by non-critical information. Suppressing informational messages can also help to reduce the amount of output generated by the command, which can be particularly useful when running scripts or automating tasks.

****NOTES****

-sir the assignment was overall tricky lots of trials and error and used different variety of codes, but the effort was implemented but it was really difficult.

REFERENCES

WWW.GOOGLE.COM

WWW.YOUTUBE.COM