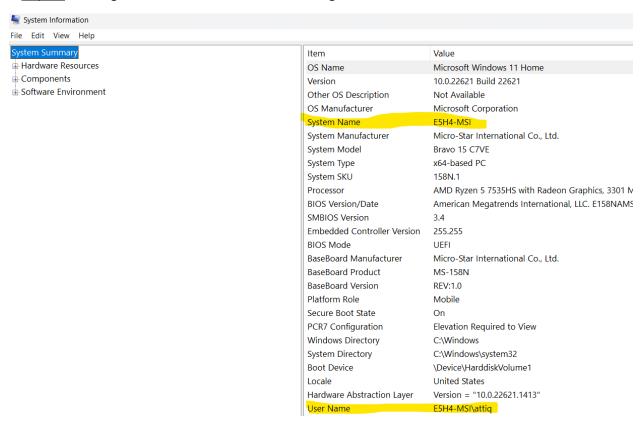
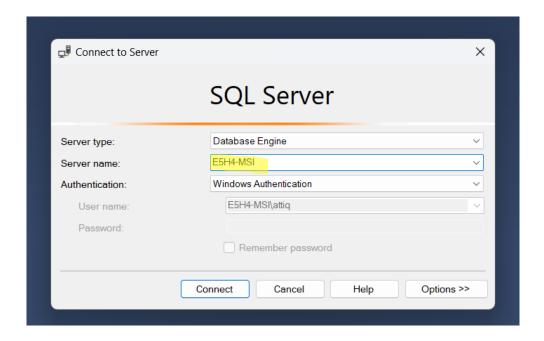
## -- CIS430: Lab Assignment 1

-- Name: Esha Attiq

--ID: 2774494

-- Object: Creating a Relational Database Schema Using SQL and SQL Server





## Created a database

■ Management

[Will get error if already created. Since I executed the program, there's an error because I already CREATED it. Look at the Object Explorer as it shows.] । 😉 🕶 । 📸 🕆 🛅 т 當 💾 🛂 | 🗐 New Query 🗐 😭 🔬 ⋒ ⋒ ⋒ 🖟 । 😾 🗇 🗇 | 🤊 🔻 🤝 | 🔻 | 🥬 COMPANY EshAtt EshaAttiq\_Lab1\_Cre...H4-MSI\attiq (55))\* + × Object Explorer ⊡-- CIS430- Lab Assignment 1 Connect ▼ 🜹 📮 🔻 💍 -- Name: Esha Attiq ■ E5H4-MSI (SQL Server 15.0.210<sup>a</sup> --ID: 2774494 □ ■ Databases -- Object: Creating a Relational Database Schema Using SQL and SQL Server ☐ ☐ COMPANY\_EshAtt ⊡USE master; Database Diagrams -- create a db named COMPANY EshAtt. do NOT use master db. Tables DB\_ID('COMPANY\_EshaAtt') IS NULL CREATE DATABASE COMPANY\_EshAtt; ⊞ dbo.DEPARTMENT --use created db USE COMPANY\_EshAtt; ⊞ dbo.EMPLOYEE -- drop table, removes EMPLOYEE table & data □IF OBJECT ID('dbo.EMPLOYEE') IS NOT NULL DROP TABLE dbo.EMPLOYEE ⊞ Service Broker -- create table named EMPLOYEE with correct row names & sizes CREATE TABLE EMPLOYEE( ENAME VARCHAR(25) NOT NULL 100 % Messages Msg 1801, Level 16, State 3, Line 10 base 'COMPANY EshAtt' already exists. Choose a different database name Completion time: 2023-09-15T18:24:16.3681561-04:00 ⊕ PolyBase 

• Drop and Create EMPLOYEE and DEPARTMENT tables inside database that was created

```
--use created db
USE COMPANY_EshAtt;
-- drop table, removes EMPLOYEE table & data
IF OBJECT ID('dbo.EMPLOYEE') IS NOT NULL
       DROP TABLE dbo.EMPLOYEE
-- create table named EMPLOYEE with correct row names & sizes
CREATE TABLE EMPLOYEE(
       FNAME VARCHAR(25) NOT NULL,
      MINIT CHAR,
       LNAME VARCHAR(25) NOT NULL,
       SSN CHAR(9) NOT NULL,
       BDATE DATE,
       [ADDRESS] VARCHAR(50) NOT NULL,
       SEX CHAR NOT NULL,
       SALARY DECIMAL(18,2),
       SUPERSSN CHAR(9),
      DNO INT NOT NULL
);
GO
USE COMPANY_EshAtt;
-- drop table, removes DEPARTMENT table & data
IF OBJECT_ID('dbo.DEPARTMENT') IS NOT NULL
      DROP TABLE dbo.EMPLOYEE
-- create table named DEPARTMENT with correct row names & sizes
CREATE TABLE DEPARTMENT(
       DNAME VARCHAR(25) NOT NULL,
       DNUMBER CHAR,
      MGRSSN CHAR(9) NOT NULL,
      MGRSTARTDATE DATE,
);
GO
```

```
EshaAttiq_Lab1_CreateTable.sql - E5H4-MSI.COMPANY_EshAtt (E5H4-MSI\attiq (55))* - Microsoft SQL Server Management Studio

     File Edit View Query Project Tools Window Help
     🖔 🛇 🕶 💍 🏗 🕆 🐚 😭 🔛 🛂 🚇 New Query. 🚇 😭 😭 🛣 🖟 🐰 🗗 🗂 🤚 🦅 💎 🔧 😭 🕒 🥬
     COMPANY EshAtt
                           → Д ×
                           EshaAttiq_Lab1_Cre...H4-MSI\attiq (55))* + ×
     Connect ▼ 🜹 🜹 ■ ▼ 💍
                               --use created db
     USE COMPANY_EshAtt;
       ■ ■ Databases
        -- drop table, removes EMPLOYEE table & data

■ COMPANY_EshAtt

                               IF OBJECT_ID('dbo.EMPLOYEE') IS NOT NULL
            Database Diagrams
                                 DROP TABLE dbo.EMPLOYEE

□ ■ Tables

           - create table named EMPLOYEE with correct row names & sizes
                               CREATE TABLE EMPLOYEE(
            FNAME VARCHAR(25) NOT NULL,
            MINIT CHAR,
                                  LNAME VARCHAR(25) NOT NULL,

    ■ dbo DEPARTMENT
            ⊞ dbo.EMPLOYEE
                                  SSN CHAR(9) NOT NULL,
                                  BDATE DATE,
          [ADDRESS] VARCHAR(50) NOT NULL,
          SEX CHAR NOT NULL,
          SALARY DECIMAL(18,2),
          SUPERSSN CHAR(9),
          DNO INT NOT NULL

    ⊞ ■ Storage

    ■ Security
         100 % -

    Messages

       Server Objects
                              Completion time: 2023-09-15T18:21:31.8616747-04:00

    ⊞ Replication

    ■ Always On High Availability

Object Explorer
                      EshaAttiq_Lab1_Cre...H4-MSI\attiq (55)) + ×
                             SALARY DECIMAL(18,2),
Connect ▼ # ¥ ■ ▼ ♂
                             SUPERSSN CHAR(9),
DNO INT NOT NULL
 ■ ■ Databases
                          );

☐ COMPANY_EshAtt

                          USE COMPANY_EshAtt;
      Database Diagrams
     -- drop table, removes DEPARTMENT table & data
      ■ IF OBJECT ID('dbo.DEPARTMENT') IS NOT NULL
      DROP TABLE dbo.DEPARTMENT
      create table named DEPARTMENT with correct row names & sizes

    ⊞ dbo.DEPARTMENT

                          CREATE TABLE DEPARTMENT(

    ⊞ dbo.EMPLOYEE

                             DNAME VARCHAR(25) NOT NULL,
     DNUMBER CHAR,
     MGRSSN CHAR(9) NOT NULL,
     MGRSTARTDATE DATE,

    Service Broker

     - insert values inside EMPLOYEE table
                      TINSERT THTO EMPLOYEE VALUES ('Tohn' 'R' 'Smith' '123456789'

    □ DWDiagnostics

    Messages

 nds completed successfully.
 Completion time: 2023-09-15T18:30:51.0773510-04:00

    ⊞ Replication
```

Insert values into EMPLOYEE and DEPARTMENT tables

```
-- insert values inside EMPLOYEE table
INSERT INTO EMPLOYEE VALUES('John', 'B', 'Smith', '123456789', '9-Jan-1955', '731
Fondren, Houston, TX', 'M', 30000, '987654321', 5);
INSERT INTO EMPLOYEE VALUES('Franklin', 'T', 'Wong', '333445555', '08-Dec-1945', '638
Voss, Houston, TX', 'M', 40000, '888665555', 5);
INSERT INTO EMPLOYEE VALUES('Joyce', 'A', 'English', '453453453', '21-Jul-1962', '5631
Rice, Houston, TX', 'M', 30000, '333445555', 5);
INSERT INTO EMPLOYEE VALUES('Ramash', 'K', 'Narayan', '666884444', '15-Sep-1952', '975
Fire Oak, Humble, TX', 'M', 38000, '333445555', 5);
INSERT INTO EMPLOYEE VALUES('James', 'E', 'Borg', '888665555', '10-Nov-1927', '975 Fire
Oak, Humble, TX', 'M', 55000, NULL, 1);
INSERT INTO EMPLOYEE VALUES('Jennifer', 'S', 'Wallace', '987654321', '20-Jun-1931', '291
Berry, Bellaire, TX', 'F', 43000, '888665555', 4);
INSERT INTO EMPLOYEE VALUES('Ahmad', 'V', 'Jabbar', '987987987', '29-Mar-1959', '980
Dallas, Houston, TX', 'M', 25000, '987654321', 4);
INSERT INTO EMPLOYEE VALUES('Alicia', 'J', 'Zelaya', '999887777', '19-Jul-1958', '3321
Castle, SPring, TX', 'F', 25000, '987654321', 4);
-- insert values inside DEPARTMENT table
INSERT INTO DEPARTMENT VALUES ('Headquarters','1','888665555','19-Jun-71');
INSERT INTO DEPARTMENT VALUES ('Administration', '4', '987654321', '01-Jan-85');
INSERT INTO DEPARTMENT VALUES ('Reasearch','5','333445555','22-May-78');
INSERT INTO DEPARTMENT VALUES ('Automation','7','123456789','06-Oct-05');
      EshaAttiq_Lab1_Cre...H4-MSI\attiq (55)) + ×
               DNUMBER CHAR
               MGRSSN CHAR(9) NOT NULL.
               MGRSTARTDATE DATE.
          INSERT INTO EMPLOYEE VALUES('John', 'B', 'Smith', '123456789', '9-Jan-1955', '731 Fondren, Houston, TX', 'M', 30000, '987654321', 5);

INSERT INTO EMPLOYEE VALUES('Franklin', 'T', 'Wong', '333445555', '08-Dec-1945', '638 Voss, Houston, TX', 'M', 40000, '888665555', 5);

INSERT INTO EMPLOYEE VALUES('Joyce', 'A', 'English', '453453453', '21-Jul-1962', '5631 Rice, Houston, TX', 'M', 30000, '333445555', 5);

INSERT INTO EMPLOYEE VALUES('Ramash', 'K', 'Warayan', '666884444', '15-Sep-1952', '975 Fire Oak, Humble, TX', 'M', 38000, '333445555', 5);

INSERT INTO EMPLOYEE VALUES('James', 'E', 'Borg', '888665555', '10-Nov-1927', '975 Fire Oak, Humble, TX', 'M', 55000, NULL, 1);

THISERT INTO EMPLOYEE VALUES('Jannifer', 'S', 'Wallace', '987654321', '20-Jun-1931', '291 Berry, Bellaire, TX', 'F', 43000, '888665555', 4);

INSERT INTO EMPLOYEE VALUES('Ahmad', 'V', 'Jabbar', '987987987', '29-Mar-1959', '980 Dallas, Houston, TX', 'M', 25000, '987654321', 4);

INSERT INTO EMPLOYEE VALUES('Alicia', 'J', 'Zelaya', '999887777', '19-Jul-1958', '3321 Castle, SPrig, TX', 'F', 25000, '987654321', 4);
            -- insert values inside EMPLOYEE table
            -- insert values inside DEPARTMENT table
       100 % ▼

    Messages

         (1 row affected)
        (1 row affected
         (1 row affected)
         (1 row affected)
         Completion time: 2023-09-15T18:36:34.2710842-04:00
```

```
EshaAttiq_Lab1_Cre...H4-MSI\attiq (55)) + ×
     INSERT INTO EMPLOYEE VALUES('Joyce', 'A', 'English', '453453453', '21-Jul-1962', INSERT INTO EMPLOYEE VALUES('Ramash', 'K', 'Narayan', '666884444', '15-Sep-1952' INSERT INTO EMPLOYEE VALUES('James', 'E', 'Borg', '888665555', '10-Nov-1927', '9
      INSERT INTO EMPLOYEE VALUES('Jennifer', 'S', 'Wallace', '987654321', '20-Jun-193
      INSERT INTO EMPLOYEE VALUES('Ahmad', 'V', 'Jabbar', '987987987', '29-Mar-1959',
      INSERT INTO EMPLOYEE VALUES('Alicia', 'J', 'Zelaya', '999887777', '19-Jul-1958',
      -- insert values inside DEPARTMENT table
     INSERT INTO DEPARTMENT VALUES ('Headquarters','1','888665555','19-Jun-71');
      INSERT INTO DEPARTMENT VALUES ('Administration','4','987654321','01-Jan-85');
      INSERT INTO DEPARTMENT VALUES ('Reasearch','5','333445555','22-May-78');
      INSERT INTO DEPARTMENT VALUES ('Automation','7','123456789','06-Oct-05');
      -- to see all EMPLOYEE records inserted
      SELECT * FROM EMPLOYEE
      -- to see all DEPARTMENT records inserted
     SELECT * FROM DEPARTMENT
100 % ▼ 4

    Messages

   (1 row affected)
   (1 row affected)
   (1 row affected)
    (1 row affected)
   Completion time: 2023-09-15T18:44:44.8758249-04:00
```

Lastly, use SELECT to see all EMPLOYEE and DEPARTMENT records that are inserted

```
-- to see all EMPLOYEE records inserted

SELECT * from EMPLOYEE

-- to see all DEPARTMENT
records inserted

SELECT * from DEPARTMENT

INSERT I
```

[last screenshot on the final page is also proof of path and filename]

```
EshaAttiq_Lab1_Cre...H4-MSI\attiq (55)) 😕 🗶
       INSERT INTO EMPLOYEE VALUES('Ramash', 'K', 'Narayan', '666884444', '15-Sep-1952', '975
INSERT INTO EMPLOYEE VALUES('James', 'E', 'Borg', '888665555', '10-Nov-1927', '975 Fir
INSERT INTO EMPLOYEE VALUES('Jennifer', 'S', 'Wallace', '987654321', '20-Jun-1931', '2
INSERT INTO EMPLOYEE VALUES('Ahmad', 'V', 'Jabbar', '987987987', '29-Mar-1959', '980 C
INSERT INTO EMPLOYEE VALUES('Alicia', 'J', 'Zelaya', '999887777', '19-Jul-1958', '3321
       -- insert values inside DEPARTMENT table
      INSERT INTO DEPARTMENT VALUES ('Headquarters','1','888665555','19-Jun-71');
       INSERT INTO DEPARTMENT VALUES ('Administration','4','987654321','01-Jan-85');
       INSERT INTO DEPARTMENT VALUES ('Reasearch','5','333445555','22-May-78');
       INSERT INTO DEPARTMENT VALUES ('Automation','7','123456789','06-Oct-05');
         - to see all EMPLOYEE records inserted
       SELECT * FROM EMPLOYEE
          to see all DEPARTMENT records inserted
      SELECT * FROM DEPARTMENT
100 % -
 Results Messages
                                                                                            SEX SALARY
       FNAME MINIT LNAME SSN
                                                  BDATE
                                                                ADDRESS
                                                                                                              SUPERSSN DNO
                          Smith
      John
               В
                                     123456789 1955-01-09 731 Fondren, Houston, TX M
                                                                                                   30000 00 987654321
                          Wong 333445555 1945-12-08 638 Voss, Houston, TX
English 453453453 1962-07-21 5631 Rice, Houston, TX
                                                                                                    40000.00 888665555
       Franklin T
                                                                                                    30000.00 333445555
       Jovce
                          Narayan 666884444 1952-09-15 975 Fire Oak, Humble, TX M
                                                                                                    38000.00 333445555
       Ramash K
                          Borg 888665555 1927-11-10 975 Fire Oak, Humble, TX M
       James E
                                                                                                    55000.00 NULL
                          Wallace 987654321 1931-06-20 291 Berry, Bellaire, TX
                                                                                                    43000.00 888665555
       Jennifer S

        Jabbar
        987987987
        1959-03-29
        980 Dallas, Houston, TX
        M

        Zelaya
        999887777
        1958-07-19
        3321 Castle, SPring, TX
        F

                                                                                                   25000.00 987654321 4
       Ahmad V
Alicia J
                                                                                                    25000.00 987654321 4
```

