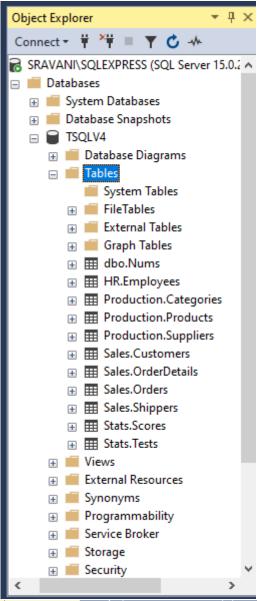
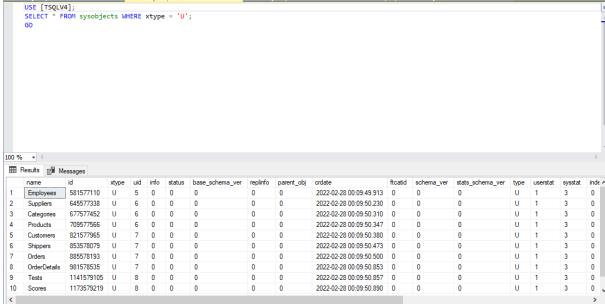
1. List the names of the entity tables.

Solution:

Also added the output file in the name of query_1_output_data. Adding the image for reference.





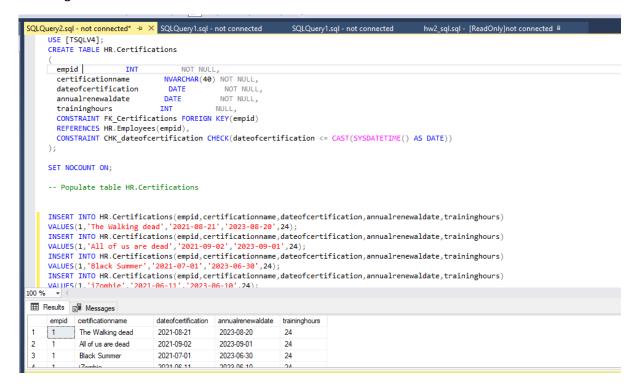
```
USE [TSQLV4];
SELECT * FROM sysobjects WHERE xtype = 'U';
GO
```

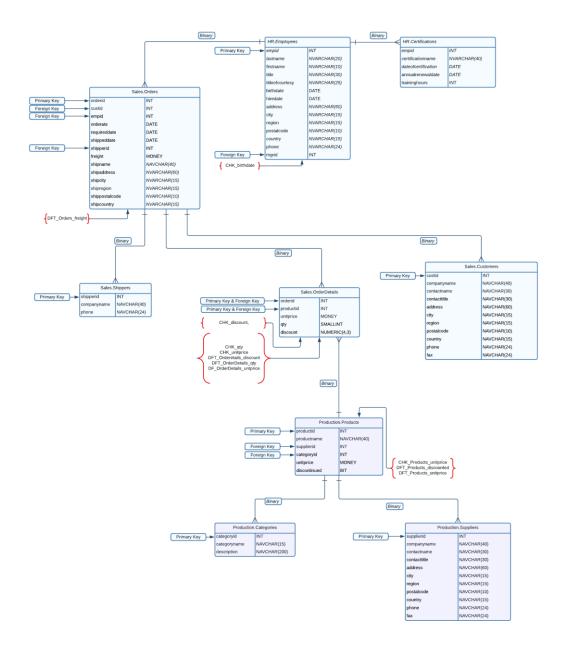
2. a.)

```
USE [TSQLV4];
CREATE TABLE HR. Certifications
 empid
                 TNT
                             NOT NULL,
 certificationname
                        NVARCHAR(40) NOT NULL,
 dateofcertification
                                       NOT NULL,
                         DATE
                                      NOT NULL,
 annualrenewaldate
                         DATE
 traininghours
                         INT
                                     NULL,
 CONSTRAINT FK_Certifications FOREIGN KEY(empid)
 REFERENCES HR.Employees(empid),
 CONSTRAINT CHK_dateofcertification CHECK(dateofcertification <= CAST(SYSDATETIME() AS DATE))
);
```

SET NOCOUNT ON;

Added the output file in the name of query_2_output_data and code file in the name of SQLQuery2. Adding the image for reference.



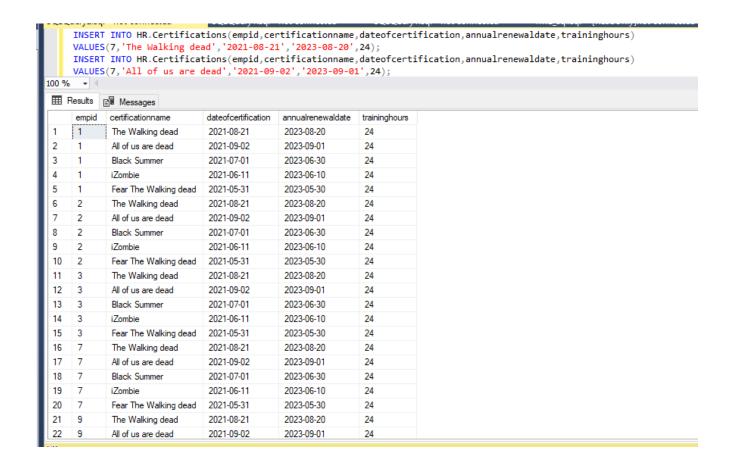


c. Create the new database table (s) in your physical database.Solution:

-- Populate table HR.Certifications

```
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(1, 'The Walking dead', '2021-08-21', '2023-08-20', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(1, 'All of us are dead', '2021-09-02', '2023-09-01', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(1, 'Black Summer', '2021-07-01', '2023-06-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(1, 'iZombie', '2021-06-11', '2023-06-10', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(1, 'Fear The Walking dead', '2021-05-31', '2023-05-30', 24);
INSERT INTO
HR. Certifications (empid, certificationname, dateofcertification, annual renewal date, training hours)
VALUES(2, 'The Walking dead', '2021-08-21', '2023-08-20', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(2, 'All of us are dead', '2021-09-02', '2023-09-01', 24);
TNSFRT TNTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(2, 'Black Summer', '2021-07-01', '2023-06-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(2, 'iZombie', '2021-06-11', '2023-06-10', 24);
INSERT INTO
HR. Certifications (empid, certificationname, dateofcertification, annual renewal date, training hours)
VALUES(2, 'Fear The Walking dead', '2021-05-31', '2023-05-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(3, 'The Walking dead', '2021-08-21', '2023-08-20', 24);
INSERT INTO
HR. Certifications (empid, certificationname, dateofcertification, annual renewal date, training hours)
VALUES(3, 'All of us are dead', '2021-09-02', '2023-09-01', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(3, 'Black Summer', '2021-07-01', '2023-06-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(3, 'iZombie', '2021-06-11', '2023-06-10', 24);
INSERT INTO
HR. Certifications (empid, certificationname, dateofcertification, annual renewal date, training hours)
VALUES(3, 'Fear The Walking dead', '2021-05-31', '2023-05-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(7, 'The Walking dead', '2021-08-21', '2023-08-20', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(7, 'All of us are dead', '2021-09-02', '2023-09-01', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(7, 'Black Summer', '2021-07-01', '2023-06-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(7, 'iZombie', '2021-06-11', '2023-06-10', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(7, 'Fear The Walking dead', '2021-05-31', '2023-05-30', 24);
```

```
TNSFRT TNTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(9, 'The Walking dead', '2021-08-21', '2023-08-20', 24);
INSERT INTO
HR. Certifications (empid, certification name, date of certification, annual renewal date, training hours) \\
VALUES(9, 'All of us are dead', '2021-09-02', '2023-09-01', 24);
TNSFRT TNTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(9, 'Black Summer', '2021-07-01', '2023-06-30', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(9, 'iZombie', '2021-06-11', '2023-06-10', 24);
INSERT INTO
HR.Certifications(empid,certificationname,dateofcertification,annualrenewaldate,traininghours)
VALUES(9, 'Fear The Walking dead', '2021-05-31', '2023-05-30', 24);
select * from HR.Certifications;
```



Perform a backup of the databaseSolution: Added the backup file with the name TSQLV4.bak