CIS530-Lab Assignment 1

Name: Reza Shisheie

ID: 2708062

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

SQL Code:

```
USE master;
-- define a data base called "COMPANY"
IF DB ID('COMPANY') IS NULL
         CREATE DATABASE COMPANY;
G0
use COMPANY;
go
-- Create a Table EMPLOYEE in COMPANY database
IF OBJECT ID('dbo.EMPLOYEE') IS NULL
         create table EMPLOYEE (
         Fname VARCHAR(15) NOT NULL,
         Minit CHAR,
         Lname VARCHAR(15) NOT NULL,
         Ssn CHAR(9) NOT NULL,
         Bdate DATE,
         Address VARCHAR(30),
         Sex CHAR,
         Salary DECIMAL(10,2),
         Super ssn CHAR(9),
         Dno INT
         );
-- Create a Table DEPARTMENT in COMPANY database
IF OBJECT ID('dbo.DEPARTMENT') IS NULL
         CREATE TABLE dbo.DEPARTMENT(
         Dname VARCHAR(15) NOT NULL,
         Dnumber INT NOT NULL,
         Mgr ssn CHAR(9) NOT NULL,
         Mgr start date DATE
);
--Let's insert data into EMPLOYEE
insert into EMPLOYEE values ( 'John', 'B', 'Smith', '123456789', '9-Jan-55', '731 Fondren, Houston, TX', 'M', '30000', '987654321', '5'); insert into EMPLOYEE values ( 'Franklin', 'T', 'Wong', '333445555', '08-Dec-45', '638 Voss, Houston, TX', 'M', '40000', '888665555', '5');
insert into EMPLOYEE values ('Joyce', 'A', 'English', '453453453', '31-Jul-62', '5631
Rice, Houston, TX ', 'F', '25000', '333445555', '5');
insert into EMPLOYEE values ( 'Ramesh', 'K' ,'Narayan','666884444','15-Sep-52', '975 Fire
Oak, Humble, TX', 'M', '38000', '333445555', '5');
insert into EMPLOYEE values ( 'James', 'E' ,'Borg','888665555','10-Nov-27', '450 Stone,
Houston, TX ', 'M', '55000', '', '1');
insert into EMPLOYEE values ( 'Jennifer', 'S' ,'Wallace','987654321','20-Jun-31', '291
Berry, Bellaire, TX', 'F', '43000', '888665555', '4');
```

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```
insert into EMPLOYEE values ( 'Ahmad', 'V' ,'Jabbar','987987987','29-Mar-59', '980
Dallas, Houston, TX', 'M', '25000', '987654321', '4');
insert into EMPLOYEE values ( 'Alicia', 'J' ,'Zelaya','999887777','19-Jul-58', '3321
Castle, SPring, TX', 'F', '25000', '987654321', '4');

--This Select Query will Show tables
select * from EMPLOYEE;

--Let's insert data into DEPARTMENT
insert into DEPARTMENT values ( 'Headquarters', '1' ,'888665555','19-Jun-71');
insert into DEPARTMENT values ( 'Administration', '4' ,'987654321','01-Jan-85');
insert into DEPARTMENT values ( 'Research', '5' ,'333445555','22-May-78');
insert into DEPARTMENT values ( 'Automation', '7' ,'123456789','06-Oct-05');

--This Select Query will Show tables
select * from DEPARTMENT;

-- This will delete the whole table making it ready for next execution
drop table EMPLOYEE;
drop table DEPARTMENT;
```

Results:

Fname	Minit	Lname	Ssn	Bdate	Addres	sSex	Salary	Super_ssn	Dno		
John	B 30000.0	Smith 00	123456 987654		1955-0 5	1-09	731 For	ndren, Houston,	TX	M	
Franklir	nT 888665	Wong 555	333445 5	555	2045-1	2-08	638 Vo	ss, Houston, TX	М	40000.0)0
Joyce	A 333445	•	453453 5	453	1962-0	7-31	5631 Ri	ce, Houston, TX	F	25000.0)0
Ramesh	nK 38000.0	Naraya 00	n 333445	666884 555	444 5	1952-0	9-15	975 Fire Oak, H	umble, 1	ГХ	М
James	E 1	Borg	888665	555	2027-1	1-10	450 Sto	ne, Houston, TX	M	55000.0)0
Jennife	rS 888665		987654 4	321	2031-0	6-20	291 Bei	rry, Bellaire, TX	F	43000.0	00
Ahmad	V 987654		987987 4	987	1959-0	3-29	980 Da	llas, Houston, TX	(M	25000.0)0
Alicia	J 987654	Zelaya 321	999887 4	777	1958-0	7-19	3321 Ca	astle, SPring, TX	F	25000.0	00

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