MySql Table Preparation

Create a database called COMPANY1 in MySQL.

```
-- Create the database to hold the tables
CREATE DATABASE COMPANY1;

-- Select the newly created database
USE COMPANY1;
```

Write and execute DDL (Data Definition Language) SQL statements to create the EMP and DEPT tables based on the structure provided

```
-- Create the DEPT table

CREATE TABLE DEPT (

DEPTNO INT PRIMARY KEY, -- DEPTNO is the primary key of the DEPT table

DNAME VARCHAR(20), -- DNAME stores the name of the department

LOC VARCHAR(20) -- LOC stores the location of the department

);

-- Create the EMP table

CREATE TABLE EMP (

EMPNO INT PRIMARY KEY, -- EMPNO is the primary key of the EMP table

ENAME VARCHAR(20), -- ENAME stores the employee's name

JOB VARCHAR(20), -- JOB stores the name of the job of the employee

MGR INT, -- MGR stores the manager's EMPNO

HIREDATE DATE, -- HIREDATE stores the date the employee was hired

SAL DECIMAL(10, 2), -- COMM stores the employee's salary

COMM DECIMAL(10, 2), -- COMM stores the department number, foreign key

FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO) -- Foreign key links EMP'S DEPTNO to
```

Write the DML (Data Manipulation Language) to insert the sample data for the EMP and DEPT tables provided

```
INSERT INTO DEPT (DEPTNO, DNAME, LOC) VALUES
(10, 'ACCOUNTING', 'NEW YORK'),
(20, 'RESEARCH', 'DALLAS'),
(30, 'SALES', 'CHICAGO');
INSERT INTO EMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO) VALUES
(7369, 'SMITH', 'CLERK', 7902, '1980-12-17', 800.00, NULL, 20),
(7499, 'ALLEN', 'SALESMAN', 7698, '1981-02-20', 1600.00, 300.00, 30), (7521, 'WARD', 'SALESMAN', 7698, '1981-02-22', 1250.00, 500.00, 30),
(7566, 'JONES', 'MANAGER', 7839, '1981-04-02', 2975.00, NULL, 20),
(7654, 'MARTIN', 'SALESMAN', 7698, '1981-09-28', 1250.00, 1400.00, 30),
(7698, 'BLAKE', 'MANAGER', 7839, '1981-05-01', 2850.00, NULL, 30),
(7782, 'CLARK', 'MANAGER', 7839, '1981-06-09', 2450.00, NULL, 10),
(7788, 'SCOTT', 'ANALYST', 7566, '1987-04-19', 3000.00, NULL, 20), (7839, 'KING', 'PRESIDENT', NULL, '1981-11-17', 5000.00, NULL, 10),
(7844, 'TURNER', 'SALESMAN', 7698, '1981-09-08', 1500.00, 0.00, 30),
(7876, 'ADAMS', 'CLERK', 7788, '1987-05-23', 1100.00, NULL, 20),
(7900, 'JAMES', 'CLERK', 7698, '1981-12-03', 950.00, NULL, 30),
(7902, 'FORD', 'ANALYST', 7566, '1981-12-03', 3000.00, NULL, 20),
(7934, 'MILLER', 'CLERK', 7782, '1982-01-23', 1300.00, NULL, 10);
```

Check that the data has been inserted correctly by querying the tables to ensure the rows match the provided sample data.

```
SELECT * FROM DEPT;
SELECT * FROM EMP;
```

+		+				
DEPTNO DN	AME LOC	i				
++ 10 ACCOUNTING NEW YORK						
20 RESEARCH DALLAS						
30 SA	LES CHICA	GO				
+		+				
EMPNO ENA	ME JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
++ 7369 SMI	+ TH	+ 7902	 1980-12-17	 800.00	+ NULL	++ 20
7499 ALL		7698	1980-12-17 1981-02-20	1600.00	300.00	20 30
7521 WAR		7698	1981-02-20 1981-02-22	1250.00	500.00	30 30
7566 JON		7839	1981-04-02	2975.00	NULL	20
7654 MAR		7698	1981-09-28	1250.00	1400.00	30
7698 BLA		7839	1981-05-01	2850.00	NULL	30
7782 CLA		7839	1981-06-09	2450.00	NULL	10
7788 SCO		7566	1987-04-19	3000.00	NULL	20
7839 KIN		NULL	1981-11-17	5000.00	NULL	10
7844 TUR	NER SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876 ADA	MS CLERK	7788	1987-05-23	1100.00	NULL	20
7900 JAM	ES CLERK	7698	1981-12-03	950.00	NULL	30
7902 FOR	D ANALYST	7566	1981-12-03	3000.00	NULL	20
7934 MIL	LER CLERK	7782	1982-01-23	1300.00	NULL	10
+	+	+	+		+	++