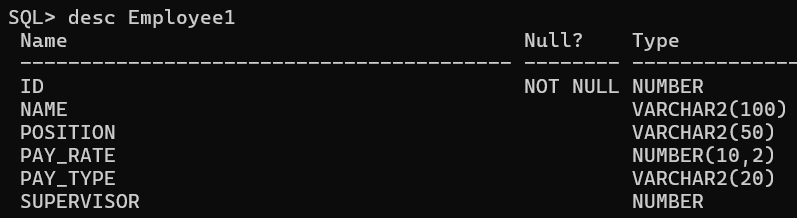
Practical: -4

Aim: - ER Diagram Relation Schema

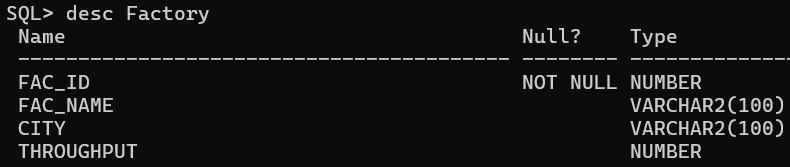
1.Create Database.

SQL> CREATE TABLE Employee1 (ID NUMBER PRIMARY KEY, name VARCHAR2(100), position VARCHAR2(50), pay\_rate NUMBER (10,2), pay\_type VARCHAR2(20), supervisor NUMBER, FOREIGN KEY (supervisor) REFERENCES Employee1(ID));

SQL> desc Employee1

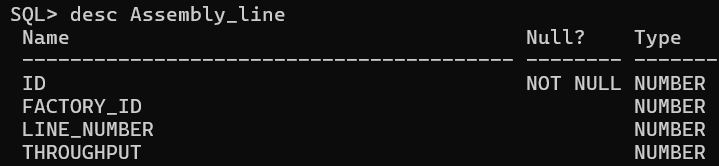
SQL> CREATE TABLE Factory (fac\_ID NUMBER PRIMARY KEY, fac\_name VARCHAR2(100),

city VARCHAR2(100), throughput NUMBER);

SQL> desc Factory

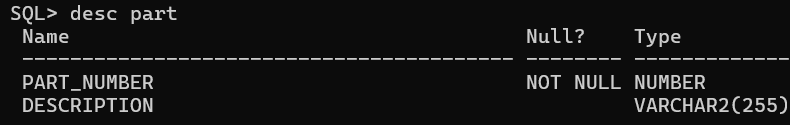
SQL> CREATE TABLE Assembly\_Line (ID NUMBER PRIMARY KEY, factory\_id NUMBER, line\_number NUMBER, throughput NUMBER, FOREIGN KEY (factory\_id) REFERENCES Factory(fac\_ID));

SQL> desc Assembly\_Line



SQL> CREATE TABLE Part (part\_number NUMBER PRIMARY KEY, description VARCHAR2(255));

SQL> desc part



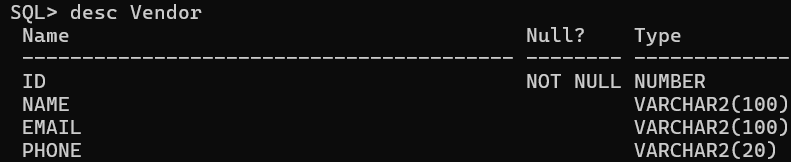
SQL> CREATE TABLE Vendor (ID NUMBER PRIMARY KEY,

name VARCHAR2(100),

email VARCHAR2(100),

phone VARCHAR2(20));

SQL> desc Vendor



CREATE TABLE Part\_Vendor (

part\_number NUMBER,

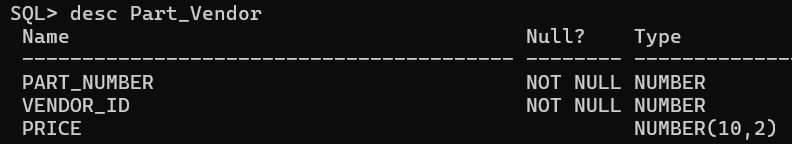
vendor\_id NUMBER,

price NUMBER (10,2),

PRIMARY KEY (part\_number, vendor\_id),

FOREIGN KEY (part\_number) REFERENCES Part(part\_number),

FOREIGN KEY (vendor\_id) REFERENCES Vendor (ID));

SQL> desc Part\_Vendor

CREATE TABLE Works\_At (

employee\_id NUMBER,

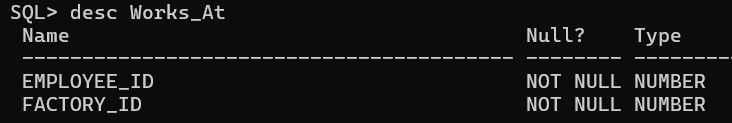
factory\_id NUMBER,

PRIMARY KEY (employee\_id, factory\_id),

FOREIGN KEY (employee\_id) REFERENCES Employee1(ID),

FOREIGN KEY (factory\_id) REFERENCES Factory(fac\_ID));

SQL> desc Works\_At



CREATE TABLE Manages (

manager\_id NUMBER,

factory\_id NUMBER,

PRIMARY KEY (manager\_id, factory\_id),

FOREIGN KEY (manager\_id) REFERENCES Employee1(ID),

FOREIGN KEY (factory\_id) REFERENCES Factory(fac\_ID));

SQL> desc Manages

