EXERCISE NO 2

Date: DATA MANIPULATIONS

Create table statement:

**CREATE TABLE employees(employee\_id NUMBER(6) NOT NULL,first\_name VARCHAR2(20),last\_name VARCHAR2(25) NOT NULL,email VARCHAR2(25) NOT NULL,phone\_number VARCHAR2(20),hire\_date DATE NOT NULL,job\_id VARCHAR2(10) NOT NULL,salary NUMBER(8, 2),commission\_pct NUMBER(2, 2),manager\_id NUMBER(6),department\_id NUMBER(4));**

Insert values:

**BEGIN**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (100, 'John', 'Doe', 'jdoe@example.com', '1234567890', TO\_DATE('12-JAN-2020', 'DD-MON-YYYY'), 'IT\_PROG', 6000, 60, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (101, 'Jane', 'Smith', 'jsmith@example.com', '0987654321', TO\_DATE('15-FEB-2020', 'DD-MON-YYYY'), 'HR\_REP', 4500, 70, 100);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (102, 'Alice', 'Johnson', 'ajohnson@example.com', '5551234567', TO\_DATE('01-MAR-2021', 'DD-MON-YYYY'), 'SALES', 4200, 70, 100);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (103, 'David', 'Williams', 'dwilliams@example.com', '9876543210', TO\_DATE('10-APR-2022', 'DD-MON-YYYY'), 'MARKETING', 7200, 80, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (104, 'Emily', 'Brown', 'ebrown@example.com', '1112223333', TO\_DATE('20-MAY-2023', 'DD-MON-YYYY'), 'FINANCE', 6800, 60, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (105, 'Michael', 'Davis', 'mdavis@example.com', '4445556666', TO\_DATE('05-JUN-2024', 'DD-MON-YYYY'), 'IT\_PROG', 7500, 60, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (106, 'Olivia', 'Miller', 'omiller@example.com', '7778889999', TO\_DATE('15-JUL-2024', 'DD-MON-YYYY'), 'HR\_REP', 5200, 50, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (107, 'Noah', 'Wilson', 'nwilson@example.com', '2223334444', TO\_DATE('25-AUG-2024', 'DD-MON-YYYY'), 'SALES', 6200, 30, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (108, 'Ava', 'Taylor', 'atailor@example.com', '5556667777', TO\_DATE('05-SEP-2024', 'DD-MON-YYYY'), 'MARKETING', 7800, 40, NULL);**

**INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id, manager\_id) VALUES (109, 'Liam', 'Thomas', 'lthomas@example.com', '8889990000', TO\_DATE('15-OCT-2024', 'DD-MON-YYYY'), 'FINANCE', 7000, 20, NULL);**

**END;**

**/**

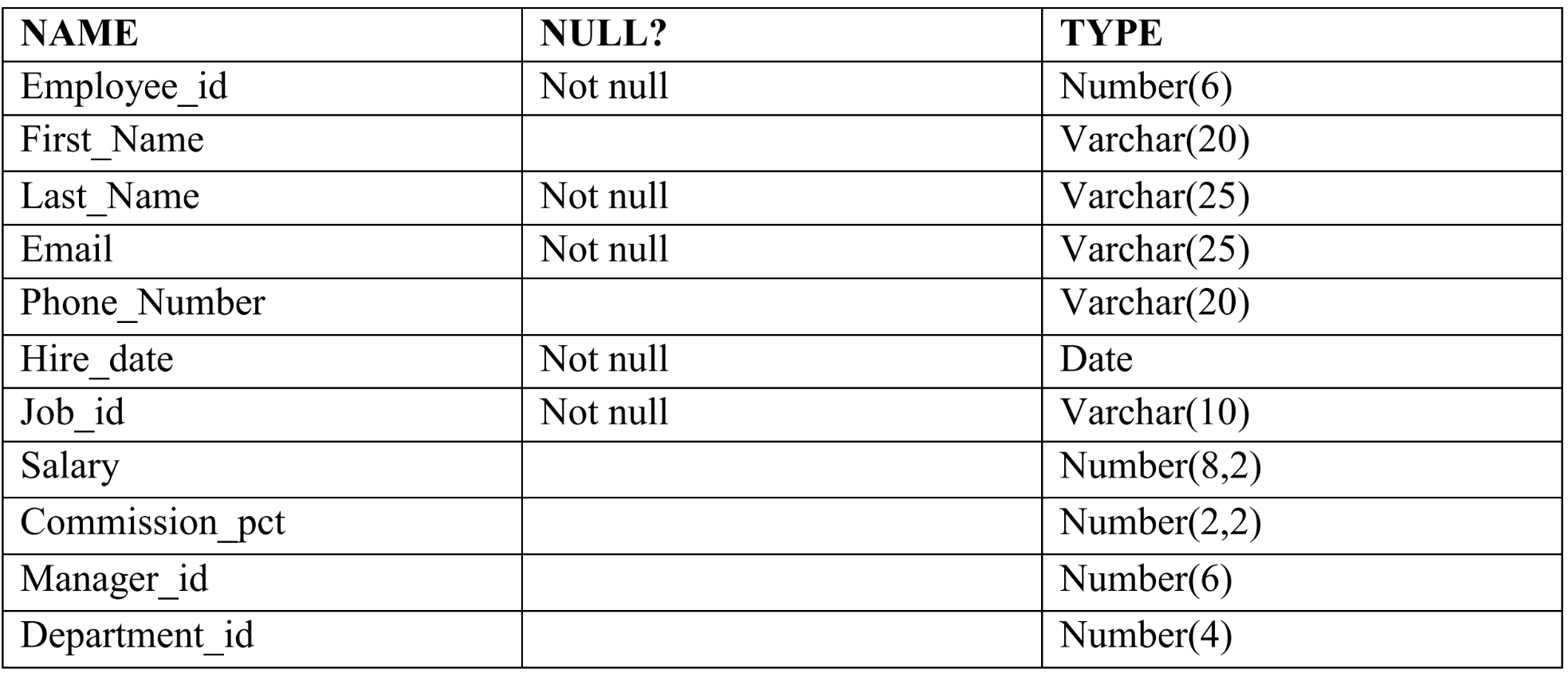
TABLE PREVIEW:

**SELECT \* FROM EMPLOYEES;**



1.Create the following tables with the given structure.

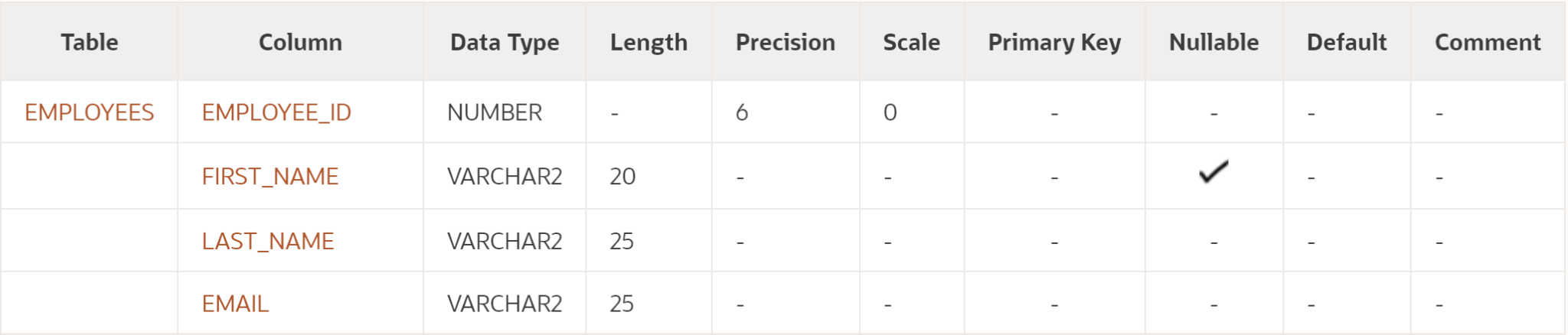
EMPLOYEES TABLE



**CREATE TABLE employees(employee\_id NUMBER(6) NOT NULL,first\_name VARCHAR2(20),last\_name VARCHAR2(25) NOT NULL,email VARCHAR2(25) NOT NULL,phone\_number VARCHAR2(20),hire\_date DATE NOT NULL,job\_id VARCHAR2(10) NOT NULL,salary NUMBER(8, 2),commission\_pct NUMBER(2, 2),manager\_id NUMBER(6),department\_id NUMBER(4));**

CHECK:

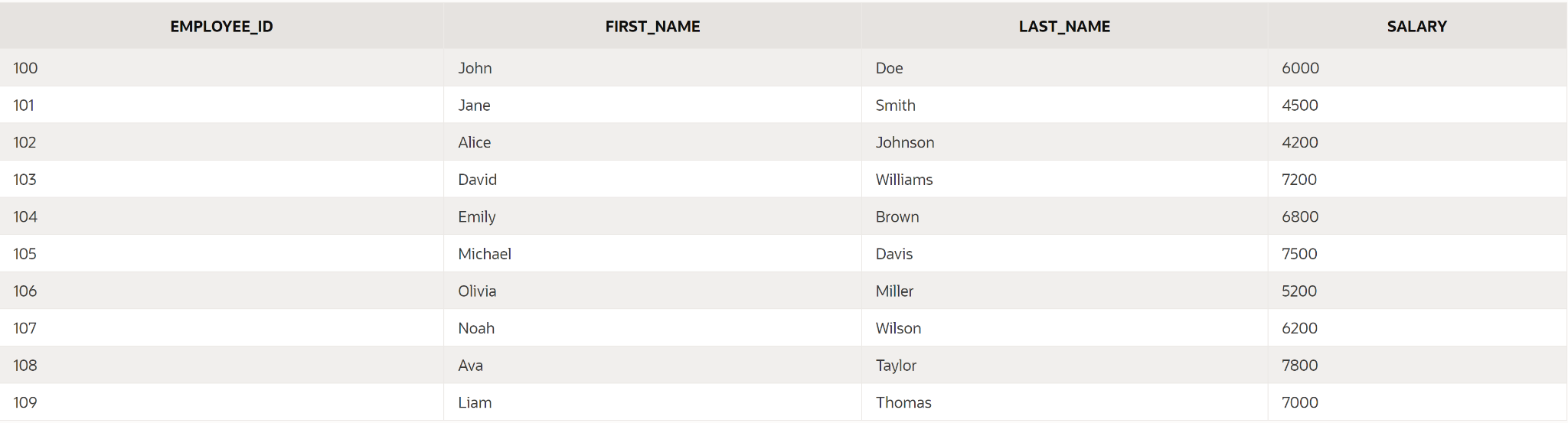
**DESC EMPLOYEES;**



(a) Find out the employee id, names, salaries of all the employees

PROGRAM:

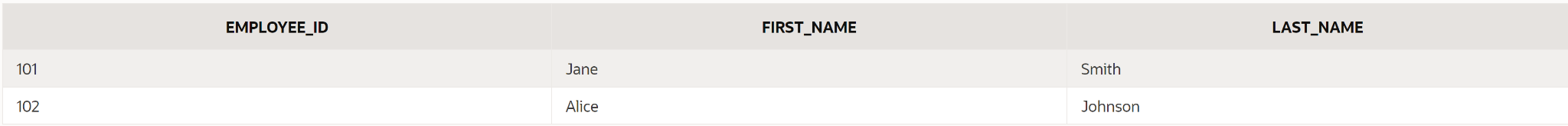
**SELECT employee\_id, first\_name, last\_name, salary FROM employees;**



(b) List out the employees who works under manager 100

PROGRAM:

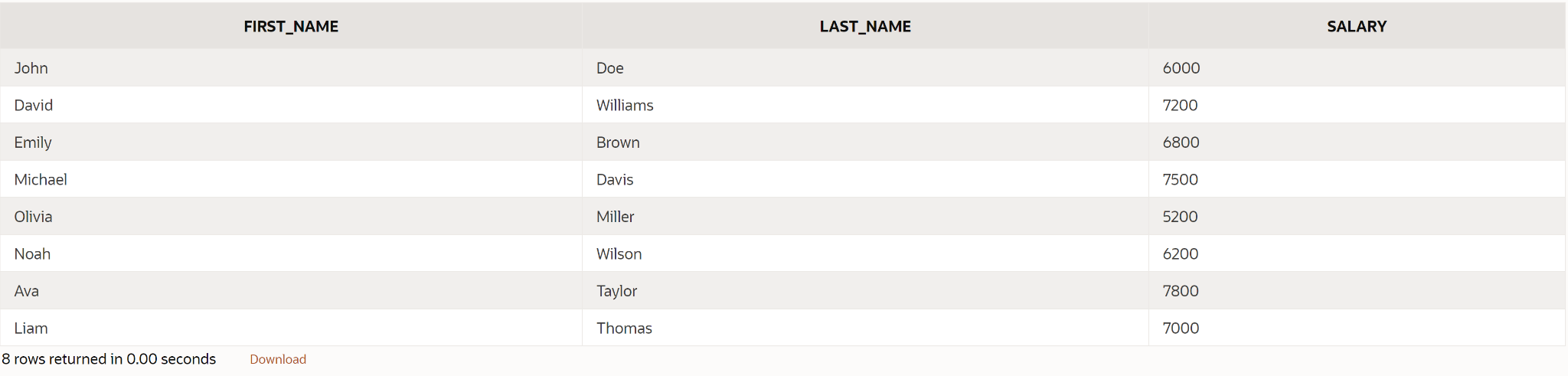
**SELECT employee\_id, first\_name, last\_name FROM employees WHERE manager\_id = 100;**



(c) Find the names of the employees who have a salary greater than or equal to 4800

PROGRAM:

**SELECT first\_name, last\_name, salary FROM employees WHERE salary >= 4800;**



(d) List out the employees whose last name is ̳AUSTIN‘

PROGRAM:

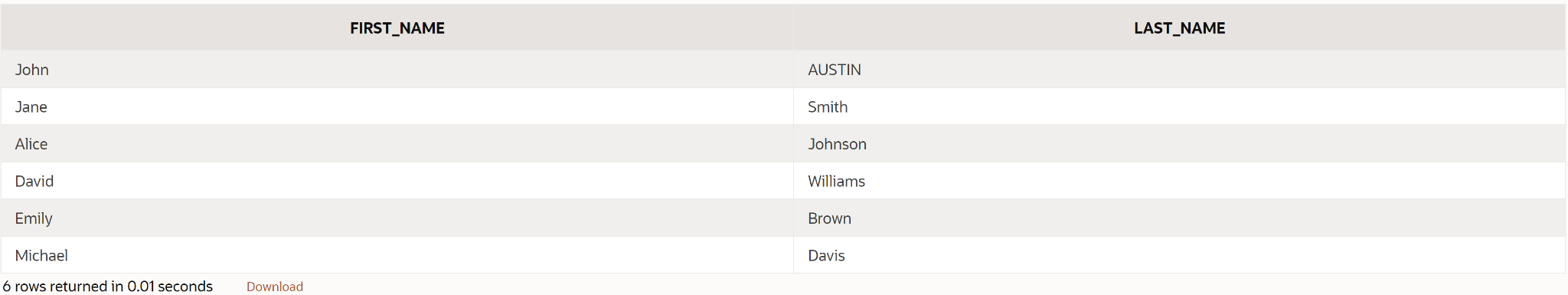
**SELECT first\_name, last\_name FROM employees WHERE last\_name = 'AUSTIN';**



(e) Find the names of the employees who works in departments 60,70 and 80

PROGRAM:

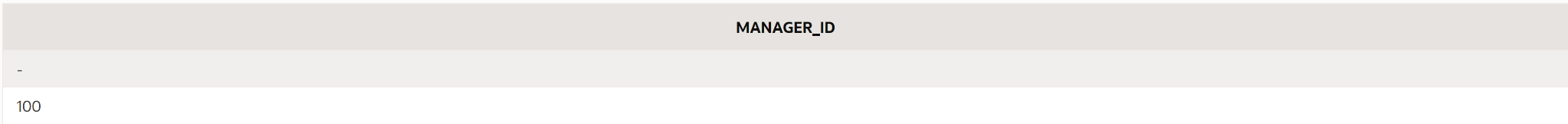
**SELECT first\_name, last\_name FROM employees WHERE department\_id IN (60, 70, 80);**



(f ) Display the unique Manager\_Id.

PROGRAM:

**SELECT DISTINCT manager\_id FROM employees;**



Create an Emp table with the following fields: (EmpNo, EmpName, Job,Basic, DA, HRA,PF,

GrossPay, NetPay) (Calculate DA as 30% of Basic and HRA as 40% of Basic)

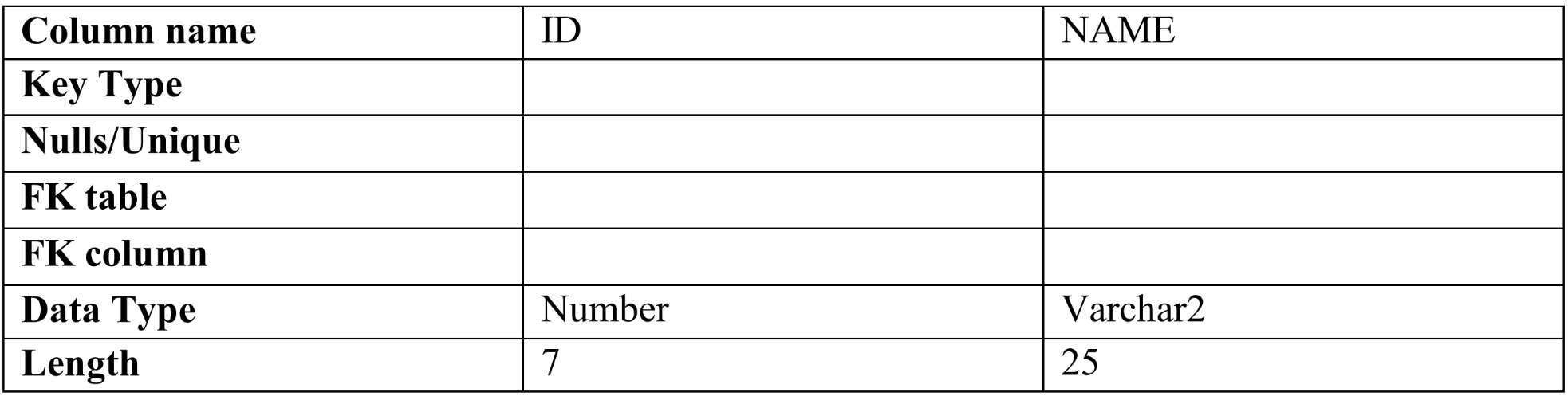
(a) Insert Five Records and calculate GrossPay and NetPay.

(b) Display the employees whose Basic is lowest in each department.

(c) If Net Pay is less than

1. Create the DEPT table based on the DEPARTMENT following the table instance chart

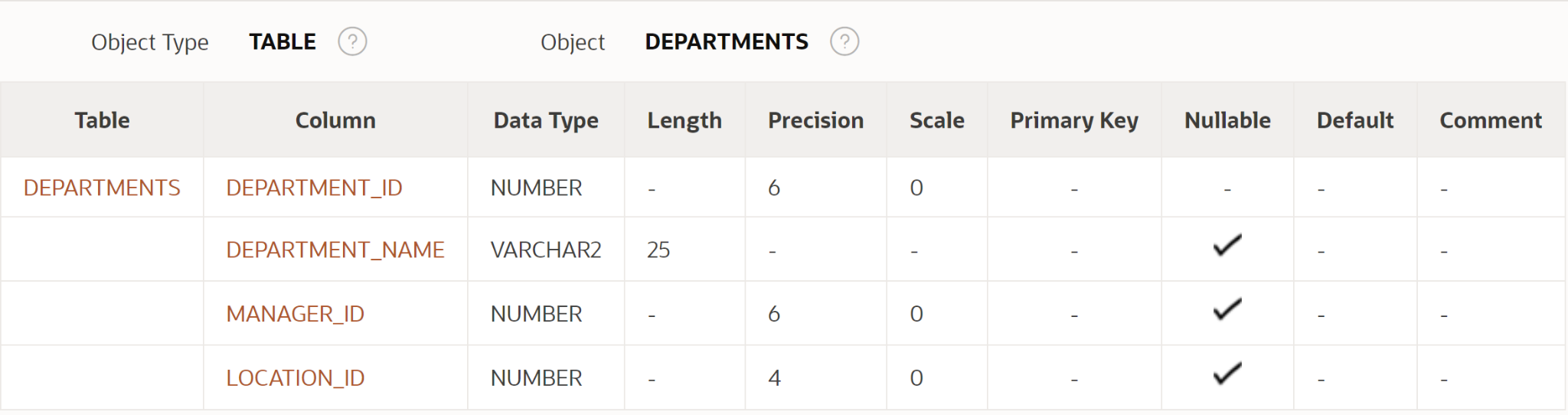
below. Confirm that the table is created.



PROGRAM:

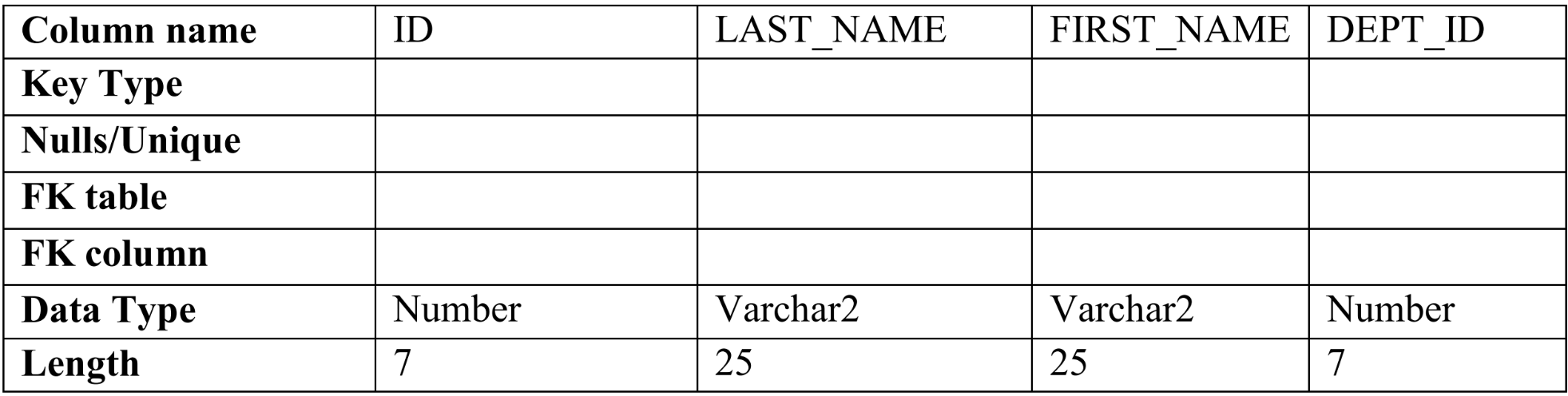
**CREATE TABLE departments (department\_id NUMBER(6) NOT NULL,department\_name VARCHAR2(25),manager\_id NUMBER(6),location\_id NUMBER(4));**

CHECK:



2. Create the EMP table based on the following instance chart. Confirm that the table is

created.



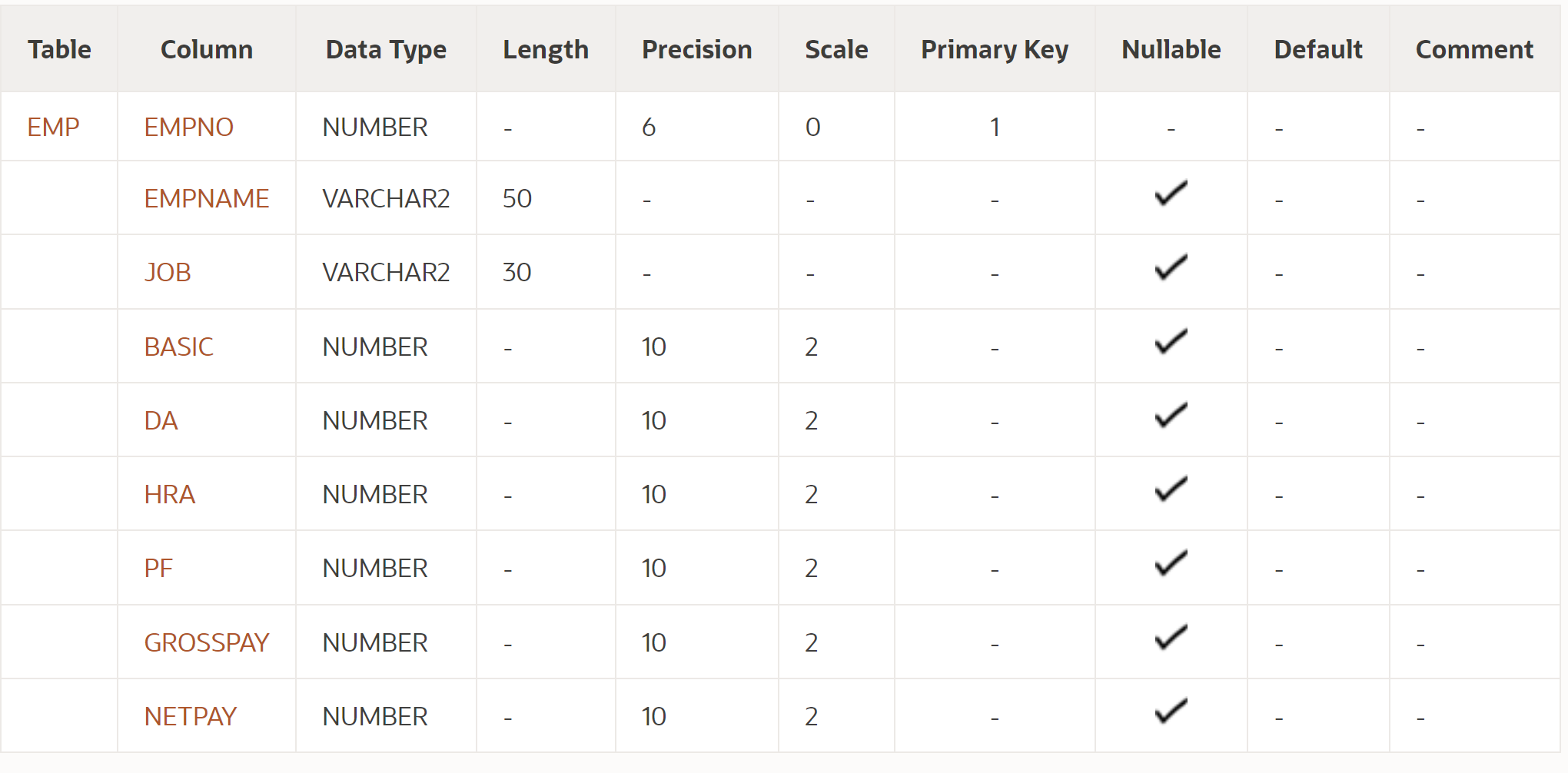
PROGRAM:

3 Modify the EMP table to allow for longer employee last names. Confirm the

modification.(Hint: Increase the size to 50)

PROGRAM:

**CREATE TABLE emp (EmpNo NUMBER(6) PRIMARY KEY,EmpName VARCHAR2(50),Job VARCHAR2(30),Basic NUMBER(10, 2),DA NUMBER(10, 2),HRA NUMBER(10, 2),PF NUMBER(10, 2),GrossPay NUMBER(10, 2),NetPay NUMBER(10, 2));**



4 Create the EMPLOYEES2 table based on the structure of the EMPLOYEES table. Include

Only the Employee\_id, First\_name, Last\_name, Salary and Dept\_id columns. Name the

columns Id, First\_name, Last\_name, salary and Dept\_id respectively.

5 Drop the EMP table.

6 Rename the EMPLOYEES2 table as EMP.

7 Add a comment on the DEPT and EMP tables. Confirm the modification by describing the

table.

8 Drop the First\_name column from the EMP table and confirm it.