EXP NO:02　　　DATA MANIPULATIONS.

DATE: 03/08/2024

CREATE TABLE EMPLOYEE (

  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),

  PRIMARY KEY (Employee_id)

);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (1, 'John', 'Doe', 'john.doe@example.com', '1234567890', '2020-01-15', 'DEV', 6000, 0.10, 100, 10);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (2, 'Jane', 'Smith', 'jane.smith@example.com', '0987654321', '2019-03-20', 'HR', 5500, 0.15, 101, 20);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (3, 'Emily', 'Davis', 'emily.davis@example.com', '1122334455', '2018-05-22', 'DEV', 7000, 0.12, 102, 30);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (4, 'Michael', 'Brown', 'michael.brown@example.com', '2233445566', '2017-11-30', 'FIN', 6200, 0.08, 60, 40);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (5, 'Jessica', 'Jones', 'jessica.jones@example.com', '3344556677', '2021-02-18', 'HR', 5300, 0.10, 70, 20);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (6, 'William', 'Miller', 'william.miller@example.com', '4455667788', '2020-06-14', 'DEV', 6800, 0.14, 80, 10);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (7, 'Sarah', 'Austin', 'sarah.wilson@example.com', '5566778899', '2019-09-10', 'FIN', 5900, 0.09, 101, 40);

INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (8, 'David', 'Moore', 'david.moore@example.com', '6677889900', '2021-12-01', 'HR', 5200, 0.11, 102, 20);

```sql
INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (9, 'Laura', 'Taylor', 'laura.taylor@example.com', '7788990011', '2022-01-25', 'DEV', 7100, 0.13, 103, 30);


INSERT INTO EMPLOYEE (Employee_id, First_Name, Last_Name, Email, Phone_Number, Hire_date, Job_id, Salary, Commission_pct, Manager_id, Department_id)

VALUES (10, 'James', 'Anderson', 'james.anderson@example.com', '8899001122', '2020-08-19', 'FIN', 6300, 0.10, 104, 40);


select * from EMPLOYEE;


SELECT Employee_id, First_Name, Last_Name, Salary FROM EMPLOYEE;


SELECT Employee_id, First_Name, Last_Name FROM EMPLOYEE WHERE Manager_id = 100;


SELECT First_Name, Last_Name FROM EMPLOYEE WHERE Salary >= 4800;


SELECT First_Name, Last_Name FROM EMPLOYEE WHERE Last_Name = 'AUSTIN';


SELECT First_Name, Last_Name FROM EMPLOYEE WHERE Department_id IN (60, 70, 80);


SELECT DISTINCT Manager_id FROM EMPLOYEE;
```

OUTPUT:

Employee_id	First_Name	Last_Name	Email	Phone_Number	Hire_date	Job_id	Salary	Commission_pct	Manager_id	Department_id
1	John	Doe	john.doe@example.com	1234567890	2020-01-15	DEV	6000	0.1	100	10
2	Jane	Smith	jane.smith@example.com	0987654321	2019-03-20	HR	5500	0.15	101	20
3	Emily	Davis	emily.davis@example.com	1122334455	2018-05-22	DEV	7000	0.12	102	30
4	Michael	Brown	michael.brown@example.com	2233445566	2017-11-30	FIN	6200	0.08	60	40
5	Jessica	Jones	jessica.jones@example.com	3344556677	2021-02-18	HR	5300	0.1	70	20
6	William	Miller	william.miller@example.com	4455667788	2020-06-14	DEV	6800	0.14	80	10
7	Sarah	Austin	sarah.wilson@example.com	5566778899	2019-09-10	FIN	5900	0.09	101	40
8	David	Moore	david.moore@example.com	6677889900	2021-12-01	HR	5200	0.11	102	20
9	Laura	Taylor	laura.taylor@example.com	7788990011	2022-01-25	DEV	7100	0.13	103	30
10	James	Anderson	james.anderson@example.com	8899001122	2020-08-19	FIN	6300	0.1	104	40

Employee_id	First_Name	Last_Name	Salary
1	John	Doe	6000
2	Jane	Smith	5500
3	Emily	Davis	7000
4	Michael	Brown	6200
5	Jessica	Jones	5300

6	William	Miller	6800
7	Sarah	Austin	5900
8	David	Moore	5200
9	Laura	Taylor	7100
10	James	Anderson	6300

Employee_id	First_Name	Last_Name
1	John	Doe

First_Name	Last_Name
John	Doe
Jane	Smith
Emily	Davis
Michael	Brown
Jessica	Jones
William	Miller
Sarah	Austin
David	Moore
Laura	Taylor
James	Anderson

Manager_id
100
101
102
60
70

80
103
104

```
CREATE TABLE EMP (

    EmpNo NUMBER(6) PRIMARY KEY,

    EmpName VARCHAR2(25),

    Job VARCHAR2(25),

    Basic NUMBER(8,2),

    DA NUMBER(8,2),

    HRA NUMBER(8,2),

    PF NUMBER(8,2),

    GrossPay NUMBER(10,2),

    NetPay NUMBER(10,2)

);


-- Insert Five Records

INSERT INTO EMP (EmpNo, EmpName, Job, Basic, DA, HRA, PF, GrossPay, NetPay)

VALUES (1, 'John Doe', 'Manager', 5000, 0.3*5000, 0.4*5000, 500, 5000+0.3*5000+0.4*5000,
5000+0.3*5000+0.4*5000-500);

INSERT INTO EMP (EmpNo, EmpName, Job, Basic, DA, HRA, PF, GrossPay, NetPay)

VALUES (2, 'Jane Smith', 'Developer', 4000, 0.3*4000, 0.4*4000, 400, 4000+0.3*4000+0.4*4000,
4000+0.3*4000+0.4*4000-400);

INSERT INTO EMP (EmpNo, EmpName, Job, Basic, DA, HRA, PF, GrossPay, NetPay)
```

VALUES (3, 'Alice Johnson', 'Analyst', 4500, 0.3*4500, 0.4*4500, 450, 4500+0.3*4500+0.4*4500, 4500+0.3*4500+0.4*4500-450);

INSERT INTO EMP (EmpNo, EmpName, Job, Basic, DA, HRA, PF, GrossPay, NetPay)

VALUES (4, 'Bob Brown', 'Tester', 3500, 0.3*3500, 0.4*3500, 350, 3500+0.3*3500+0.4*3500, 3500+0.3*3500+0.4*3500-350);

INSERT INTO EMP (EmpNo, EmpName, Job, Basic, DA, HRA, PF, GrossPay, NetPay)

VALUES (5, 'Eve Davis', 'Admin', 3000, 0.3*3000, 0.4*3000, 300, 3000+0.3*3000+0.4*3000, 3000+0.3*3000+0.4*3000-300);

SELECT * from EMP;

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

-- Assuming Department information is available in EMP table (which is not mentioned, but for the sake of query):

SELECT EmpName, Basic

FROM EMP

WHERE Basic = (SELECT MIN(Basic) FROM EMP);

-- (c) If Net Pay is less than

-- Assuming there's a condition for displaying NetPay less than a certain amount

SELECT * FROM EMP WHERE NetPay < 4000;

EmpNo	EmpName	Job	Basic	DA	HRA	PF	GrossPay	NetPay
1	John Doe	Manager	5000	1500	2000	500	8500	8000
2	Jane Smith	Developer	4000	1200	1600	400	6800	6400
3	Alice Johnson	Analyst	4500	1350	1800	450	7650	7200
4	Bob Brown	Tester	3500	1050	1400	350	5950	5600

| 5 | Eve Davis | Admin | 3000 | 900 | 1200 | 300 | 5100 | 4800 |

EmpName	Basic
Eve Davis	3000