

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

1. create an employee table with the following fields: (Emp_No,Emp_ Name, Designation, basic, DA, HRA, PF, Gross pay, Net pay)

```
CREATE TABLE Emp (  
    EmpNo INT PRIMARY KEY,  
    EmpName VARCHAR(50),  
    Job VARCHAR(50),  
    Basic DECIMAL(10, 2),  
    DA DECIMAL(10, 2),  
    HRA DECIMAL(10, 2),  
    PF DECIMAL(10, 2),  
    GrossPay DECIMAL(10, 2),  
    NetPay DECIMAL(10, 2)  
);
```

2. Insert Five Records and calculate GrossPay and NetPay.

```
INSERT INTO Emp (Emp_No, Emp_Name, Designation, Basic, DA, HRA,  
PF, Gross_pay, Net_pay)
```

```
VALUES
```

```
(1, 'John Doe', 'Manager', 50000, 20000, 5000, 6000, 75000, 69000),  
(2, 'Jane Smith', 'Analyst', 40000, 16000, 4000, 4800, 60000, 55200),
```

```
(3, 'Michael Johnson', 'Engineer', 45000, 18000, 4500, 5400, 67500,
62100),
(4, 'Emily Brown', 'Salesperson', 35000, 14000, 3500, 4200, 52500,
48300),
(5, 'David Lee', 'Accountant', 38000, 15200, 3800, 4560, 57000, 52440);
```

3. Adding column to table and Updating Attributes DA

```
ALTER TABLE Emp ADD COLUMN DA DECIMAL(10, 2);
```

```
UPDATE Emp
```

```
SET DA = CASE
```

```
    WHEN Emp_No = 1 THEN 20000
```

```
    WHEN Emp_No = 2 THEN 16000
```

```
    WHEN Emp_No = 3 THEN 18000
```

```
    WHEN Emp_No = 4 THEN 14000
```

```
    WHEN Emp_No = 5 THEN 15200
```

```
END;
```

4. Adding column to table and Updating Attributes HRA

```
ALTER TABLE Emp ADD COLUMN HRA DECIMAL(10, 2);
```

```
UPDATE Emp
```

```
SET HRA = CASE
```

```
WHEN Emp_No = 1 THEN 5000
WHEN Emp_No = 2 THEN 4000
WHEN Emp_No = 3 THEN 4500
WHEN Emp_No = 4 THEN 3500
WHEN Emp_No = 5 THEN 3800
END;
```

5. Adding column to table and Updating Attributes PF

```
ALTER TABLE Emp ADD COLUMN PF DECIMAL(10, 2);
```

```
UPDATE Emp
SET PF = CASE
    WHEN Emp_No = 1 THEN 6000
    WHEN Emp_No = 2 THEN 4800
    WHEN Emp_No = 3 THEN 5400
    WHEN Emp_No = 4 THEN 4200
    WHEN Emp_No = 5 THEN 4560
END;
```

6. Adding column to table and Updating Attributes Gross Pay

```
ALTER TABLE Emp ADD COLUMN Gross_pay DECIMAL(10, 2);
```

```
UPDATE Emp
```

SET Gross_pay = Basic + DA + HRA;

7. Adding column to table and Updating Attributes Net Pay

ALTER TABLE Emp ADD COLUMN Net_pay DECIMAL(10, 2);

UPDATE Emp

SET Net_pay = Gross_pay – PF;

8. Display the employee table

SELECT * FROM Emp;

OUTPUT:

	Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF	Gross_pay	Net_pay
1	John Doe	Manager	50000	20000	5000	6000	75000	69000	
2	Jane Smith	Analyst	40000	16000	4000	4800	60000	55200	
3	Michael Johnson	Engineer	45000	18000	4500	5400	67500	62100	
4	Emily Brown	Salesperson	35000	14000	3500	4200	52500	48300	
5	David Lee	Accountant	38000	15200	3800	4560	57000	52440	

9. Display the employees whose Basic is lowest in each department.

SELECT EmpNo, EmpName, Department, Basic

FROM Emp

WHERE (Department, Basic) IN (

```
SELECT Department, MIN(Basic)
FROM Emp
GROUP BY Department
);
```

OUTPUT:

Designation	LowestBasic
Manager	50000
Analyst	40000
Engineer	45000
Salesperson	35000
Accountant	38000

10. If NetPay is less than Rs. 10,000 add Rs. 1200 as special allowance

```
UPDATE Emp SET NetPay = NetPay + 1200 WHERE NetPay < 10000;
```

11. Display the employees whose GrossPay lies between 10,000 & 20,000

```
SELECT * FROM Emp WHERE GrossPay BETWEEN 10000 AND 20000;
```

OUTPUT:

empty

12. Display all the employees who earn maximum salary.

```
SELECT * FROM Emp WHERE NetPay = (SELECT MAX(NetPay) FROM
Emp);
```

OUTPUT:

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF	Gross_pay	Net_pay
1	John Doe	Manager	50000	20000	5000	6000	75000	69000