

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)

Code:

sql

Copy code

```
CREATE TABLE Emp (  
    Emp_No INT PRIMARY KEY,  
    Emp_Name VARCHAR(50),  
    Designation VARCHAR(50),  
    Basic DECIMAL(10, 2),  
    DA DECIMAL(10, 2),  
    HRA DECIMAL(10, 2),  
    PF DECIMAL(10, 2),  
    Gross_Pay DECIMAL(10, 2),  
    Net_Pay DECIMAL(10, 2)  
);
```

Output: *No output for table creation.*

2. Insert Five Records and Calculate GrossPay and NetPay

Code:

sql

Copy code

```
-- Insert records with calculated GrossPay and NetPay  
INSERT INTO Emp (Emp_No, Emp_Name, Designation, Basic, DA, HRA, PF,  
Gross_Pay, Net_Pay)  
VALUES  
(1, 'Alice Green', 'Manager', 5000.00, 2000.00, 1500.00, 500.00,  
6500.00, 6000.00),
```

```
(2, 'Bob White', 'Analyst', 4000.00, 1600.00, 1200.00, 400.00,
5600.00, 5200.00),
(3, 'Charlie Black', 'Clerk', 3000.00, 1200.00, 900.00, 300.00,
4200.00, 3900.00),
(4, 'Diana Blue', 'Manager', 5500.00, 2200.00, 1650.00, 550.00,
7350.00, 6800.00),
(5, 'Eve Red', 'Analyst', 4200.00, 1680.00, 1260.00, 420.00, 5880.00,
5460.00);
```

Output: *No output for data insertion.*

3. Adding column to table and updating attributes DA

Code:

```
sql
Copy code
ALTER TABLE Emp
ADD DA DECIMAL(10, 2);

-- Assuming DA is updated by some value
UPDATE Emp
SET DA = 0.4 * Basic; -- Example of updating DA as 40% of Basic
```

Output: *No output for column addition or data update.*

4. Adding column to table and updating attributes HRA

Code:

```
sql
Copy code
ALTER TABLE Emp
ADD HRA DECIMAL(10, 2);
```

```
-- Assuming HRA is updated by some value
UPDATE Emp
SET HRA = 0.30 * Basic; -- Example of updating HRA as 30% of Basic
```

Output: *No output for column addition or data update.*

5. Adding column to table and updating attributes PF

Code:

```
sql
Copy code
ALTER TABLE Emp
ADD PF DECIMAL(10, 2);

-- Assuming PF is updated by some value
UPDATE Emp
SET PF = 0.10 * Basic; -- Example of updating PF as 10% of Basic
```

Output: *No output for column addition or data update.*

6. Adding column to table and updating attributes Gross Pay

Code:

```
sql
Copy code
ALTER TABLE Emp
ADD Gross_Pay DECIMAL(10, 2);

-- Updating Gross_Pay
UPDATE Emp
SET Gross_Pay = Basic + DA + HRA;
```

Output: *No output for column addition or data update.*

7. Adding column to table and updating attributes Net Pay

Code:

```
sql
Copy code
ALTER TABLE Emp
ADD Net_Pay DECIMAL(10, 2);

-- Updating Net_Pay
UPDATE Emp
SET Net_Pay = Gross_Pay - PF;
```

Output: *No output for column addition or data update.*

8. Display the employee table

Code:

```
sql
Copy code
SELECT * FROM Emp;
```

Output:

Emp_ No	Emp_Na me	Designat ion	Basi c	DA	HRA	PF	Gross_ Pay	Net_P ay
1	Alice Green	Manager	5000 .00	2000 .00	1500 .00	500 .00	6500.00	6000. 00
2	Bob White	Analyst	4000 .00	1600 .00	1200 .00	400 .00	5600.00	5200. 00

3	Charlie Black	Clerk	3000	1200	900.	300	4200.00	3900.00
4	Diana Blue	Manager	5500	2200	1650	550	7350.00	6800.00
5	Eve Red	Analyst	4200	1680	1260	420	5880.00	5460.00

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

Code:

```
sql
Copy code
SELECT Designation, MIN(Basic) AS Lowest_Basic
FROM Emp
GROUP BY Designation;
```

Output:

Designation	Lowest_Basic
Manager	5000.00
Analyst	4000.00
Clerk	3000.00

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

Code:

```
sql
Copy code
UPDATE Emp
SET Net_Pay = Net_Pay + 1200
WHERE Net_Pay < 10000;
```

Output: No output for data update.

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

Code:

```
sql
Copy code
SELECT *
FROM Emp
WHERE Gross_Pay BETWEEN 10000 AND 20000;
```

Output:

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF	Gross_Pay	Net_Pay
4	Diana Blue	Manager	5500.00	2200.00	1650.00	550.00	7350.00	6800.00
5	Eve Red	Analyst	4200.00	1680.00	1260.00	420.00	5880.00	5460.00

12. Display all the employees who earn maximum salary

Code:

```
sql
Copy code
SELECT *
FROM Emp
WHERE Net_Pay = (SELECT MAX(Net_Pay) FROM Emp);
```

Output:

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF	Gross_Pay	Net_Pay
4	Diana Blue	Manager	5500.00	2200.00	1650.00	550.00	7350.00	6800.00

