

Assignment_5

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 13

Server version: 8.0.37 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

Database
college
employee
information_schema
lab_assignment
mysql
performance_schema
sakila
sys
world

9 rows in set (0.00 sec)

```
mysql> use lab_assignment;
```

Database changed

```
mysql> CREATE TABLE Emp (
```

```
->     Emp_No INT,  
->     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)  
-> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql> INSERT INTO Emp (Emp_No, Emp_Name, Designation, Basic, DA, HRA, PF,  
Gross_Pay, Net_Pay)
```

```
-> VALUES
```

```
-> (1, 'Alice Johnson', 'Manager', 20000.00, 4000.00, 3000.00, 1500.00, NULL,  
NULL),  
-> (2, 'Bob Smith', 'Developer', 15000.00, 3000.00, 2500.00, 1200.00, NULL,  
NULL),  
-> (3, 'Charlie Brown', 'Analyst', 18000.00, 3600.00, 2700.00, 1400.00, NULL,  
NULL),  
-> (4, 'David White', 'Tester', 12000.00, 2400.00, 1800.00, 1000.00, NULL,  
NULL),  
-> (5, 'Eva Green', 'HR', 17000.00, 3400.00, 2550.00, 1300.00, NULL, NULL);
```

Query OK, 5 rows affected (0.03 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from emp;
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	1500.00
2	Bob Smith	Developer	15000.00	3000.00	2500.00	1200.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1400.00
4	David White	Tester	12000.00	2400.00	1800.00	1000.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1300.00

```
5 rows in set (0.00 sec)
```

```
mysql> UPDATE Emp
```

```
-> SET Gross_Pay = Basic + DA + HRA,  
    Net_Pay = Gross_Pay - PF;
```

```
Query OK, 5 rows affected (0.02 sec)
```

```
Rows matched: 5 Changed: 5 Warnings: 0
```

```
mysql> select * from emp;
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	1500.00
2	Bob Smith	Developer	15000.00	3000.00	2500.00	1200.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1400.00
4	David White	Tester	12000.00	2400.00	1800.00	1000.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1300.00

```
5 rows in set (0.00 sec)
```

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

```
ERROR 1060 (42S21): Duplicate column name 'DA'
```

```
mysql>
```

```
mysql> UPDATE Emp
```

```
-> SET DA = Basic * 0.20;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
Rows matched: 5 Changed: 0 Warnings: 0
```

```
mysql> select * from emp;
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
--------	----------	-------------	-------	----	-----	----

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	1500.00
2	Bob Smith	Developer	15000.00	3000.00	2500.00	1200.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1400.00
4	David White	Tester	12000.00	2400.00	1800.00	1000.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1300.00

5 rows in set (0.00 sec)

```
mysql> ALTER TABLE Emp ADD COLUMN HRA DECIMAL(10, 2);
ERROR 1060 (42S21): Duplicate column name 'HRA'
mysql>
mysql> UPDATE Emp
-> SET HRA = Basic * 0.15;
Query OK, 1 row affected (0.02 sec)
Rows matched: 5  Changed: 1  Warnings: 0
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	1500.00
2	Bob Smith	Developer	15000.00	3000.00	2250.00	1200.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1400.00
4	David White	Tester	12000.00	2400.00	1800.00	1000.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1300.00

5 rows in set (0.00 sec)

```
mysql> ALTER TABLE Emp ADD COLUMN PF DECIMAL(10, 2);
ERROR 1060 (42S21): Duplicate column name 'PF'
mysql>
mysql> UPDATE Emp
-> SET PF = Basic * 0.10;
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5  Changed: 5  Warnings: 0
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	1500.00
2	Bob Smith	Developer	15000.00	3000.00	2250.00	1200.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1400.00
4	David White	Tester	12000.00	2400.00	1800.00	1000.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1300.00

	Gross_Pay	Net_Pay					
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	2000.00	
2	Bob Smith	Developer	15000.00	3000.00	2250.00	1500.00	
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1800.00	
4	David White	Tester	12000.00	2400.00	1800.00	1200.00	
5	Eva Green	HR	17000.00	3400.00	2550.00	1700.00	

5 rows in set (0.00 sec)

```
mysql> ALTER TABLE Emp ADD COLUMN Gross_Pay DECIMAL(10, 2);
ERROR 1060 (42S21): Duplicate column name 'Gross_Pay'
mysql>
mysql> UPDATE Emp
-> SET Gross_Pay = Basic + DA + HRA;
Query OK, 1 row affected (0.02 sec)
Rows matched: 5 Changed: 1 Warnings: 0
```

```
mysql> ALTER TABLE Emp ADD COLUMN Net_Pay DECIMAL(10, 2);
ERROR 1060 (42S21): Duplicate column name 'Net_Pay'
mysql>
mysql> UPDATE Emp
-> SET Net_Pay = Gross_Pay - PF;
Query OK, 5 rows affected (0.04 sec)
Rows matched: 5 Changed: 5 Warnings: 0
```

```
mysql> SELECT * FROM Emp;
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	2000.00
2	Bob Smith	Developer	15000.00	3000.00	2250.00	1500.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1800.00
4	David White	Tester	12000.00	2400.00	1800.00	1200.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1700.00

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM Emp e1
-> WHERE Basic = (SELECT MIN(Basic) FROM Emp e2 WHERE e1.Designation =
e2.Designation);
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	2000.00
2	Bob Smith	Developer	15000.00	3000.00	2250.00	1500.00
3	Charlie Brown	Analyst	18000.00	3600.00	2700.00	1800.00
4	David White	Tester	12000.00	2400.00	1800.00	1200.00
5	Eva Green	HR	17000.00	3400.00	2550.00	1700.00

5 rows in set (0.00 sec)

```
mysql> UPDATE Emp
-> SET Net_Pay = Net_Pay + 1200
-> WHERE Net_Pay < 10000;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0
```

```
mysql> SELECT * FROM Emp
-> WHERE Gross_Pay BETWEEN 10000 AND 20000;
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
4	David White	Tester	12000.00	2400.00	1800.00	1200.00

1 row in set (0.00 sec)

```
mysql> SELECT * FROM Emp
-> WHERE Net_Pay = (SELECT MAX(Net_Pay) FROM Emp);
```

Emp_No	Emp_Name	Designation	Basic	DA	HRA	PF
1	Alice Johnson	Manager	20000.00	4000.00	3000.00	2000.00

1 row in set (0.00 sec)

```
mysql>
```