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clp 2

Sales (SaleID, Product, Region, Amount, SaleDate, EmpID)

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```sql
CREATE TABLE Sales ( SaleID INT PRIMARY KEY, Product VARCHAR(100), Region VARCHAR(50), Amount DECIMAL(10, 2), SaleDate DATE,
EmpID INT );
```

[Edit inline] [Edit] [Create PHP code]

Insert values

✔ 10 rows inserted. (Query took 0.0007 seconds.)

```sql
INSERT INTO Sales (SaleID, Product, Region, Amount, SaleDate, EmpID) VALUES (101, 'Laptop', 'dhaka', 200.00, '2025-06-05', 1),
(102, 'Tablet', 'mymensing', 700.00, '2025-06-10', 2), (103, 'Smartphone', 'coxs', 950.00, '2025-07-01', 3), (104, 'Laptop',
'kishgonj', 300.00, '2025-06-15', 4), (105, 'Monitor', 'dhaka', 500.00, '2025-06-03', 5), (106, 'Laptop', 'mymensing', 100.00,
'2025-06-20', 6), (107, 'Keyboard', 'dhaka', 1150.00, '2025-07-05', 7), (108, 'Mouse', 'mymensing', 1100.00, '2025-06-08', 8),
(109, 'Laptop', 'coxs', 400.00, '2025-06-28', 9), (110, 'Monitor', 'dhaka', 750.00, '2025-07-02', 10);
```

[Edit inline] [Edit] [Create PHP code]

Employees (EmpID, Name, Department, Salary)

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```sql
CREATE TABLE Employees ( EmpID INT PRIMARY KEY, Name VARCHAR(100), Department VARCHAR(50), Salary DECIMAL(10, 2) );
```

Edit inline] [Edit] [Create PHP code]

Insert values

✔ 10 rows inserted. (Query took 0.0015 seconds.)

```sql
INSERT INTO Employees (EmpID, Name, Department, Salary) VALUES (1, 'topu', 'IT', 6500.00), (2, 'ashab', 'HR', 5000.00), (3,
'moddabir', 'Sales', 7000.00), (4, 'hridoy', 'IT', 7200.00), (5, 'kawser', 'Marketing', 5500.00), (6, 'dipu', 'Sales', 6000.00),
(7, 'roky', 'Finance', 8000.00), (8, 'fahim', NULL, 4800.00), (9, 'akash', 'Sales', 5300.00), (10, 'raju', 'HR', 5100.00);
```

[Edit inline] [Edit] [Create PHP code]

1. Write a query to find the total sales amount across all regions.

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```sql
SELECT SUM(Amount) AS TotalSalesAmount FROM Sales;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

Extra options

TotalSalesAmount

6150.00

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

2. Find the average sales amount for the product "Laptop".

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```sql
SELECT AVG(Amount) AS AvgSalesLaptop FROM Sales WHERE Product = 'Laptop';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

Extra options

AvgSalesLaptop

250.000000

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

3. Which region made the highest total sales?

✔ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

SELECT Region, SUM(Amount) AS TotalSales FROM Sales GROUP BY Region ORDER BY TotalSales DESC LIMIT 1;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

			Region	TotalSales
☐	✏ Edit	⁙ Copy ⊖ Delete	dhaka	2600.00

↑ ☐ Check all   With selected: ✏ Edit   ⁙ Copy   ⊖ Delete   🖨 Export

4. How many distinct products were sold?

Your SQL query has been executed successfully.

SELECT COUNT(DISTINCT Product) AS DistinctProducts FROM Sales;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

DistinctProducts
6

5. Which department has the highest number of employees?

Your SQL query has been executed successfully.

SELECT Department, COUNT(*) AS EmployeeCount FROM Employees GROUP BY Department ORDER BY EmployeeCount DESC LIMIT 1;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

Department	EmployeeCount
Sales	3

6. Find the 3 rd highest salary among all employees.

Showing rows 2 - 2 (1 total, Query took 0.0002 seconds.) [Salary: **7000.00... - 7000.00...**]

```
SELECT DISTINCT * FROM Employees ORDER BY Salary DESC LIMIT 1 OFFSET 2;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

				EmpID	Name	Department	Salary
☐	Edit	Copy	Delete	3	moddabir	Sales	7000.00

☐ Check all   With selected: Edit   Copy   Delete   Export

7. Get the names of employees not working in the HR department.

```
SELECT Name,Salary,Department FROM Employees WHERE Department <> 'HR';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

Extra options

				Name	Salary	Department
☐	Edit	Copy	Delete	topu	6500.00	IT
☐	Edit	Copy	Delete	moddabir	7000.00	Sales
☐	Edit	Copy	Delete	hridoy	7200.00	IT
☐	Edit	Copy	Delete	kawser	5500.00	Marketing
☐	Edit	Copy	Delete	dipu	6000.00	Sales
☐	Edit	Copy	Delete	roky	8000.00	Finance
☐	Edit	Copy	Delete	akash	5300.00	Sales

8. Find employees working in the IT or Sales or HR department.

Showing rows 0 - 6 (7 total, Query took 0.0002 seconds.)

```sql
SELECT * FROM Employees WHERE Department IN ('IT', 'Sales', 'HR');
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

Extra options

				EmpID	Name	Department	Salary
☐	✎ Edit	⌗ Copy	⊖ Delete	1	topu	IT	6500.00
☐	✎ Edit	⌗ Copy	⊖ Delete	2	ashab	HR	5000.00
☐	✎ Edit	⌗ Copy	⊖ Delete	3	moddabir	Sales	7000.00
☐	✎ Edit	⌗ Copy	⊖ Delete	4	hridoy	IT	7200.00
☐	✎ Edit	⌗ Copy	⊖ Delete	6	dipu	Sales	6000.00
☐	✎ Edit	⌗ Copy	⊖ Delete	9	akash	Sales	5300.00
☐	✎ Edit	⌗ Copy	⊖ Delete	10	raju	HR	5100.00

9. Show sales made after June 2, 2025.

Showing rows 0 - 9 (10 total, Query took 0.0002 seconds.)

```sql
SELECT Product,Region,SaleDate FROM Sales WHERE SaleDate > '2025-06-02';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

Extra options

				Product	Region	SaleDate
☐	✎ Edit	⌗ Copy	⊖ Delete	Laptop	dhaka	2025-06-05
☐	✎ Edit	⌗ Copy	⊖ Delete	Tablet	mymensing	2025-06-10
☐	✎ Edit	⌗ Copy	⊖ Delete	Smartphone	coxs	2025-07-01
☐	✎ Edit	⌗ Copy	⊖ Delete	Laptop	kishgonj	2025-06-15
☐	✎ Edit	⌗ Copy	⊖ Delete	Monitor	dhaka	2025-06-03
☐	✎ Edit	⌗ Copy	⊖ Delete	Laptop	mymensing	2025-06-20
☐	✎ Edit	⌗ Copy	⊖ Delete	Keyboard	dhaka	2025-07-05
☐	✎ Edit	⌗ Copy	⊖ Delete	Mouse	mymensing	2025-06-08
☐	✎ Edit	⌗ Copy	⊖ Delete	Laptop	coxs	2025-06-28
☐	✎ Edit	⌗ Copy	⊖ Delete	Monitor	dhaka	2025-07-02

10. Retrieve sales from regions 'South' or 'East' where Amount is less than 1000.

```sql
SELECT Product,Region,SaleID FROM Sales WHERE Region IN ('mymensing', 'dhaka') AND Amount < 1000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key: None ▾

Extra options

←T→			Product	Region	SaleID
☐	🖉 Edit ⌗ Copy ⊖ Delete		Laptop	dhaka	101
☐	🖉 Edit ⌗ Copy ⊖ Delete		Tablet	mymensing	102
☐	🖉 Edit ⌗ Copy ⊖ Delete		Monitor	dhaka	105
☐	🖉 Edit ⌗ Copy ⊖ Delete		Laptop	mymensing	106
☐	🖉 Edit ⌗ Copy ⊖ Delete		Monitor	dhaka	110

11. Find employees whose salary is between 5000 and 7000.

```sql
SELECT * FROM Employees WHERE Salary BETWEEN 5000 AND 7000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

Extra options

←T→			EmpID	Name	Department	Salary
☐	🖉 Edit ⌗ Copy ⊖ Delete		1	topu	IT	6500.00
☐	🖉 Edit ⌗ Copy ⊖ Delete		2	ashab	HR	5000.00
☐	🖉 Edit ⌗ Copy ⊖ Delete		3	moddabir	Sales	7000.00
☐	🖉 Edit ⌗ Copy ⊖ Delete		5	kawser	Marketing	5500.00
☐	🖉 Edit ⌗ Copy ⊖ Delete		6	dipu	Sales	6000.00
☐	🖉 Edit ⌗ Copy ⊖ Delete		9	akash	Sales	5300.00
☐	🖉 Edit ⌗ Copy ⊖ Delete		10	raju	HR	5100.00

12. Find employees whose department contains the letter 'a'.

Showing rows 0 - 4 (5 total, Query took 0.0002 seconds.)

```sql
SELECT * FROM Employees WHERE Department LIKE '%a%';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

Extra options

			EmpID	Name	Department	Salary
☐	✏ Edit	⬚ Copy	⊖ Delete	3	moddabir	Sales	7000.00
☐	✏ Edit	⬚ Copy	⊖ Delete	5	kawser	Marketing	5500.00
☐	✏ Edit	⬚ Copy	⊖ Delete	6	dipu	Sales	6000.00
☐	✏ Edit	⬚ Copy	⊖ Delete	7	roky	Finance	8000.00
☐	✏ Edit	⬚ Copy	⊖ Delete	9	akash	Sales	5300.00

13. Find employees whose department is not assigned.

✓ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

SELECT * FROM Employees WHERE Department IS NULL;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

Extra options

←T→ ▾		EmpID	Name	Department	Salary
☐	✐ Edit ⚡ Copy ⊖ Delete	8	fahim	*NULL*	4800.00

↑ ☐ Check all   With selected: ✐ Edit   ⚡ Copy   ⊖ Delete   ▦ Export

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

14. Find sales where the product name ends with top

✓ Showing rows 0 - 3 (4 total, Query took 0.0002 seconds.)

SELECT * FROM Sales WHERE Product LIKE '%top';

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table   Sort by key:

Extra options

←T→ ▾		SaleID	Product	Region	Amount	SaleDate	EmpID
☐	✐ Edit ⚡ Copy ⊖ Delete	101	Laptop	dhaka	200.00	2025-06-05	1
☐	✐ Edit ⚡ Copy ⊖ Delete	104	Laptop	kishgonj	300.00	2025-06-15	4
☐	✐ Edit ⚡ Copy ⊖ Delete	106	Laptop	mymensing	100.00	2025-06-20	6
☐	✐ Edit ⚡ Copy ⊖ Delete	109	Laptop	coxs	400.00	2025-06-28	9

15. Show sales made between June 1 and June 30, 2025.

```sql
SELECT * FROM Sales WHERE SaleDate BETWEEN '2025-06-01' AND '2025-06-30';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table Sort by key:

Extra options

				SaleID	Product	Region	Amount	SaleDate	EmpID
☐	🖉 Edit	⮚ Copy	⊖ Delete	101	Laptop	dhaka	200.00	2025-06-05	1
☐	🖉 Edit	⮚ Copy	⊖ Delete	102	Tablet	mymensing	700.00	2025-06-10	2
☐	🖉 Edit	⮚ Copy	⊖ Delete	104	Laptop	kishgonj	300.00	2025-06-15	4
☐	🖉 Edit	⮚ Copy	⊖ Delete	105	Monitor	dhaka	500.00	2025-06-03	5
☐	🖉 Edit	⮚ Copy	⊖ Delete	106	Laptop	mymensing	100.00	2025-06-20	6
☐	🖉 Edit	⮚ Copy	⊖ Delete	108	Mouse	mymensing	1100.00	2025-06-08	8
☐	🖉 Edit	⮚ Copy	⊖ Delete	109	Laptop	coxs	400.00	2025-06-28	9

16. Find departments where the average salary is greater than 6000.

```sql
SELECT Department FROM Employees GROUP BY Department HAVING AVG(Salary) > 6000;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table Sort by key:

Extra options

				Department
☐	🖉 Edit	⮚ Copy	⊖ Delete	Finance
☐	🖉 Edit	⮚ Copy	⊖ Delete	IT
☐	🖉 Edit	⮚ Copy	⊖ Delete	Sales

17. List departments that have more than 1 employee.

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM Employees GROUP BY Department HAVING COUNT(*) > 1;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 ∨   Filter rows: Search this table

Extra options

		EmpID	Name	Department	Salary
☐	Edit Copy Delete	2	ashab	HR	5000.00
☐	Edit Copy Delete	1	topu	IT	6500.00
☐	Edit Copy Delete	3	moddabir	Sales	7000.00

☐ Check all   With selected: Edit   Copy   Delete   Export

18. Show departments with a total salary expense less than 10,000.

```sql
SELECT Department FROM Employees GROUP BY Department HAVING SUM(Salary) < 10000;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table Sort by key:

Extra options

←T→	Department
☐ 🖉 Edit ⬚ Copy ⊖ Delete	NULL
☐ 🖉 Edit ⬚ Copy ⊖ Delete	Finance
☐ 🖉 Edit ⬚ Copy ⊖ Delete	Marketing

↑ ☐ Check all With selected: 🖉 Edit ⬚ Copy ⊖ Delete 📇 Export

19. List regions where the maximum sale amount exceeds 1000.

```sql
SELECT Region FROM Sales GROUP BY Region HAVING MAX(Amount) > 1000;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table Sort by

Extra options

←T→	Region
☐ 🖉 Edit ⬚ Copy ⊖ Delete	dhaka
☐ 🖉 Edit ⬚ Copy ⊖ Delete	mymensing

↑ ☐ Check all With selected: 🖉 Edit ⬚ Copy ⊖ Delete 📇 Export

20. Show regions with total sales above 1500.

✓ Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

```sql
SELECT Region FROM Sales GROUP BY Region HAVING SUM(Amount) > 1500;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

Extra options

←T→				Region
☐	🖉 Edit	▓ Copy	⊖ Delete	dhaka
☐	🖉 Edit	▓ Copy	⊖ Delete	mymensing

↑__ ☐ Check all   *With selected:*   🖉 Edit   ▓ Copy   ⊖ Delete   🖳 Export