

Last login: Sat Mar 23 10:12:09 on ttys000
macbook@Kshitijs-MacBook-Air ~ % mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.3.0 Homebrew

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

mysql> use impact;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;

Tables_in_impact
course
course_5
customer_1
dept
dept_u1
dept_u2
emp
emp14
emp15
emp16
emp_base
emp_base_backup
emp_base_delete_backup
emp_select
emp_v2
emp_withdata
emp_withoutdata
marks
product_1
product_2
product_2_backup
salgrade
stud_info
student
student_5
student_course
studentdetails
test_v12
users

29 rows in set (0.00 sec)

mysql> with ct1 as(
-> select *from emp where empno=7566
->)
-> select *from ct1;

empno	ename	job	mgr	hiredate	sal	comm	deptno
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20

1 row in set (0.00 sec)

mysql> select * from ct1;
ERROR 1146 (42S02): Table 'impact.ct1' doesn't exist

mysql> CREATE TABLE sales (
-> product_name VARCHAR(50),
-> sales_date DATE,
-> revenue DECIMAL(10, 2));
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO sales (product_name, sales_date, revenue) VALUES
-> ('Product A', '2023-03-01', 1000),
-> ('Product A', '2023-03-15', 1500),
-> ('Product A', '2023-03-30', 2000),
-> ('Product B', '2023-03-01', 800),
-> ('Product B', '2023-03-15', 1200),
-> ('Product B', '2023-03-30', 1600),
-> ('Product C', '2023-03-01', 500),
-> ('Product C', '2023-03-15', 750),
-> ('Product C', '2023-03-30', 1000);
Query OK, 9 rows affected (0.00 sec)

Records: 9 Duplicates: 0 Warnings: 0

mysql> select * from sales;

product_name	sales_date	revenue
Product A	2023-03-01	1000.00
Product A	2023-03-15	1500.00
Product A	2023-03-30	2000.00
Product B	2023-03-01	800.00
Product B	2023-03-15	1200.00
Product B	2023-03-30	1600.00
Product C	2023-03-01	500.00
Product C	2023-03-15	750.00
Product C	2023-03-30	1000.00

9 rows in set (0.00 sec)

mysql> WITH sales_last_30_days AS (
-> SELECT product_name, SUM(revenue) AS total_revenue
-> FROM sales
-> WHERE sales_date BETWEEN '2023-03-10' AND '2023-04-09'
-> GROUP BY product_name
->),
-> sales_previous_30_days AS (
-> SELECT product_name, SUM(revenue) AS total_revenue
-> FROM sales
-> WHERE sales_date BETWEEN '2023-02-08' AND '2023-03-09'
-> GROUP BY product_name
->)
-> SELECT
-> s.product_name,

```

-> s.total_revenue,
-> (s.total_revenue - p.total_revenue) / p.total_revenue * 100 AS revenue_change
-> FROM sales_last_30_days s
-> JOIN sales_previous_30_days p ON s.product_name = p.product_name;

```

product_name	total_revenue	revenue_change
Product A	3500.00	250.000000
Product B	2800.00	250.000000
Product C	1750.00	250.000000

3 rows in set (0.01 sec)

```

mysql> CREATE TABLE sales1 (
-> order_date DATE,
-> product VARCHAR(50),
-> quantity INT,
-> revenue DECIMAL(10,2)
-> );
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> INSERT INTO sales1 (order_date, product, quantity, revenue) VALUES
-> ('2023-01-01', 'Product A', 10, 1000.00),
-> ('2023-01-15', 'Product B', 5, 500.00),
-> ('2023-02-01', 'Product A', 8, 800.00),
-> ('2023-02-15', 'Product C', 3, 300.00),
-> ('2023-03-01', 'Product A', 12, 1200.00),
-> ('2023-03-15', 'Product B', 7, 700.00);
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0

```

```

mysql>
mysql> WITH monthly_sales AS (
-> SELECT
-> DATE_FORMAT(order_date, '%Y-%m') AS month,
-> product,SUM(revenue) AS revenue
-> FROM sales1 GROUP BY month,product
-> ),
-> total_sales AS (
-> SELECT
-> month,SUM(revenue) AS total_revenue
-> FROM monthly_sales GROUP BY month
-> )
-> SELECT
-> monthly_sales.month,
-> monthly_sales.product,
-> monthly_sales.revenue,
-> (monthly_sales.revenue / total_sales.total_revenue)*100 AS percentage
-> FROM
-> monthly_sales
-> JOIN total_sales ON monthly_sales.month = total_sales.month
-> ORDER BY monthly_sales.month,percentage DESC;

```

month	product	revenue	percentage
2023-01	Product A	1000.00	66.666667
2023-01	Product B	500.00	33.333333
2023-02	Product A	800.00	72.727273
2023-02	Product C	300.00	27.272727
2023-03	Product A	1200.00	63.157895
2023-03	Product B	700.00	36.842105

6 rows in set (0.01 sec)

```

mysql> with d as(select * from dept),
-> e as(select * from emp)
-> select d.deptno,d.dname,e.empno,e.ename,e.sal from e join d on (e.deptno=d.deptno);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'on (e.deptno=d.deptno)' at line 3
mysql> with d as(select * from dept), e as(select * from emp) select d.deptno,d.dname,e.empno,e.ename,e.sal from e join d on (e.deptno=d.deptno);
ERROR 1054 (42S22): Unknown column 'd.deptno' in 'field list'
mysql> select * from dept;

```

dno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	testing	SA

5 rows in set (0.00 sec)

```

mysql> with d as(select * from dept), e as(select * from emp) select d.dno,d.dname,e.empno,e.ename,e.sal from e join d on (e.deptno=d.dno);

```

dno	dname	empno	ename	sal
20	RESEARCH	7369	SMITH	800.00
30	SALES	7499	ALLEN	1600.00
30	SALES	7521	WARD	1250.00
20	RESEARCH	7566	JONES	2975.00
30	SALES	7654	MARTIN	1250.00
30	SALES	7698	BLAKE	2850.00
10	ACCOUNTING	7782	CLARK	2450.00
20	RESEARCH	7788	SCOTT	3000.00
10	ACCOUNTING	7839	KING	5000.00
30	SALES	7844	TURNER	1500.00
20	RESEARCH	7876	ADAMS	1100.00
30	SALES	7900	JAMES	950.00
20	RESEARCH	7902	FORD	3000.00
10	ACCOUNTING	7934	MILLER	1300.00
30	SALES	7143	RAJESH	5000.00

15 rows in set (0.00 sec)

```

mysql> select max(sal) from emp where sal<(select max(sal) from emp);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'emp' at line 1
mysql> select max(sal) from emp where sal<(select max(sal) from emp);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1
mysql> select max(sal) from emp where sal<(select max(sal) from emp);

```

max(sal)
4000.00

[illegible]

```

mysql>
mysql>
mysql>
mysql>
mysql> with recursive num(n) as
-> (
-> select 1
-> union all
-> select n+1 from num where num.n<5
-> )
-> select *from num;
+-----+
| n |
+-----+
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
+-----+
5 rows in set (0.00 sec)

mysql> with recursive num(n) as
-> (
-> select 1
-> union all
-> select n*n from num where num.n<5
-> )
-> select * from num;
ERROR 3636 (HY000): Recursive query aborted after 1001 iterations. Try increasing @@cte_max_recursion_depth to a larger value.
mysql> with recursive num(n) as
-> (
-> select 1
-> union all
-> select n+1,(n+1)(n+1); from num where num.n<5
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(n+1)
' at line 5
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from
num where num.n<5' at line 1
mysql> with recursive num(n,sqr) as
-> (
-> select 1,1
-> union all
-> select n+1,(n+1)*(n+1) from num where n<5
-> )
-> select * from num;
+-----+-----+
| n | | sqr |
+-----+-----+
| 1 | | 1 |
| 2 | | 4 |
| 3 | | 9 |
| 4 | | 16 |
| 5 | | 25 |
+-----+-----+
5 rows in set (0.00 sec)

mysql>

```