



Day 22

Creating Temporary Tables in MySQL





TEMPORARY TABLE

- In MySQL, a **temporary table** is a special type of table that allows you to store a temporary result set, which you can reuse several times in a single session.



General Syntax :

```
CREATE TEMPORARY TABLE table_name(  
    column_1_definition,  
    column_2_definition,  
    ...,  
    table_constraints  
);
```

To create a temporary table whose structure is based on an existing table :

```
CREATE TEMPORARY TABLE temp_table_name  
SELECT * FROM original_table  
LIMIT 0;
```



Key Points:

1. A temporary table is created by using **CREATE TEMPORARY TABLE** statement.
2. MySQL removes the temporary table automatically when the session ends or the connection is terminated.
3. A temporary table is only available and accessible to the client that creates it.
4. A temporary table can have the same name as a normal table in a database.



Use Case Example :

Query :

```
CREATE TEMPORARY TABLE top_customers
SELECT p.customerNumber,
       c.customerName,
       ROUND(SUM(p.amount),2) sales
FROM payments p
INNER JOIN customers c ON c.customerNumber = p.customerNumber
GROUP BY p.customerNumber
ORDER BY sales DESC
LIMIT 10;
```

Output :

	customerNumber	customerName	sales
▶	146	Saveley & Henriot, Co.	130305.35
	321	Corporate Gift Ideas Co.	132340.78
	276	Anna's Decorations, Ltd	137034.22
	187	AV Stores, Co.	148410.09
	323	Down Under Souvenirs, Inc	154622.08
	148	Dragon Souvenirs, Ltd.	156251.03
	151	Muscle Machine Inc	177913.95
	114	Australian Collectors, Co.	180585.07
	124	Mini Gifts Distributors Ltd.	584188.24
	141	Euro+ Shopping Channel	715738.98