DIFFERENCE BETWEEN DELETE , DROP & TRUNCATE ..

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DELETE

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DELETE STATEMENT IS USED TO REMOVE A SPECIFIC ROW BASED ON CONDITION

Where

 # Removes specific rows from a table based on a WHERE clause condition.

 # Data Manipulation Language (DML) command.

 # Can specify which rows to delete using a WHERE clause.

 # Generally slower than DROP and TRUNCATE because it scans the table data to identify matching rows.

 # Reversible with ROLLBACK if transactions are enabled.

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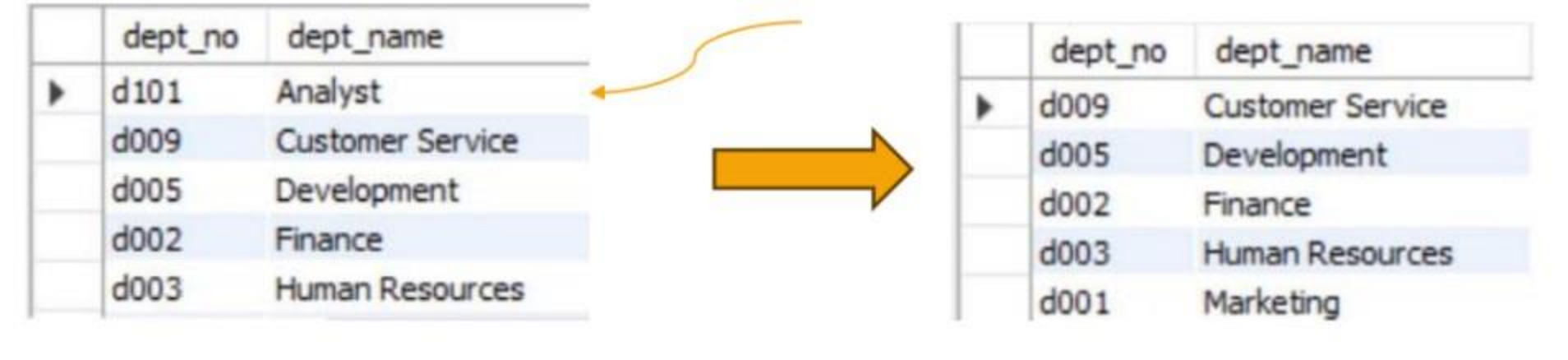
SYNTAX : DELETE FROM TABLE_NAME WHERE CONDITION ;

Example : Delete from departments where dept_no='d101';



	dept_no	dept_name
▶	d101	Analyst
	d009	Customer Service
	d005	Development
	d002	Finance
	d003	Human Resources

	dept_no	dept_name
▶	d009	Customer Service
	d005	Development
	d002	Finance
	d003	Human Resources
	d001	Marketing

Before applying 'Delete' statement for the particular table there was a row where dept_no ='d101' and dept_name='Analyst' but after applying 'Delete' query, row is not there in the table .

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DROP

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DROP STATEMENT IS USED TO DELETE ENTIRE TABLE FROM DATABASE

Where

#Eliminates the entire table structure and its data from the database.

#Data Definition Language (DDL) command.

Faster than DELETE as it directly removes the table structure.

Not reversible; once a table is dropped, it's gone unless you have a backup.

Use when you want to permanently delete a table that you no longer need.

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Syntax : Drop table table_name ;

Example : Drop table departments_dup;';

	dept_no	dept_name
▶	d009	Customer Service
	d005	Development
	d002	Finance
	d003	Human Resources
	d001	Marketing

Error Code: 1146. Table 'employees.departments_dup' doesn't exist 0.016 sec

After applying ‘Drop’ query table does not exist.

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TRUNCATE

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TRUNCATE STATEMENT IS USED TO REMOVE ALL DATA FROM THE PARTICULAR TABLE BUT THE STRUCTURE OF THE TABLE REMAINS SAME

Where

Deletes all rows from a table, leaving the table structure intact.

Data Definition Language (DDL) command.

Fastest option since it deallocates table space without reading row data.

Not reversible; all data is permanently removed.

Use when you want to quickly delete all data from a table while preserving the structure.

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SYNTAX : TRUNCATE TABLE TABLE_NAME ;

Example : Truncate table mamagers_data;

	emp_no	dept_no	from_date	to_date
▶	110022	d001	1985-01-01	1991-10-01
	110039	d001	1991-10-01	9999-01-01
	110085	d002	1985-01-01	1989-12-17
	110114	d002	1989-12-17	9999-01-01
	110183	d003	1985-01-01	1992-03-21

	emp_no	dept_no	from_date	to_date

After applying ‘Truncate’ query table does is still there but all data are removed.

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“THANKYOU”

HOPE YOU ALL WERE ENJOY THE PPT.KEEP LIKE,COMMENT,SHARE TO GIVE ME MORE MOTIVATION.

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