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General Commands			General Commands (cont)		
SELECT SELECT DISTINCT WHERE	Select data from a database. Return only distinct values. Extract records that fulfill a specified condition.	SELECT columns FROM table; SELECT DISTINCT columns FROM table; SELECT columns FROM table	The NOT operator displays a record if the condit- ion(s) is NOT TRUE	SELECT <i>columns</i> FROM <i>table</i> WHERE NOT <i>cond</i> ;	
ORDER BY	Sort the result-set in ascending or descending order. Ascending order is by default.	WHERE <i>condition</i> ; SELECT <i>columns</i> FROM <i>table</i> ORDER BY <i>column</i> ASC DESC;	BETWEEN	Selects values within a given range. The values can be numbers, text, or dates. <i>Is inclusive</i> .	SELECT <i>columns</i> FROM <i>table</i> WHERE <i>column</i> BETWEEN <i>value1</i> AND <i>value2</i> ,
LIMIT	Specify the number of records to return. OFFSET is used to skip a specified number of rows.	SELECT <i>columns</i> FROM <i>table</i> WHERE <i>condition</i> LIMIT <i>number</i> OFFSET <i>number</i> ;	IN	Allows to specify multiple values in a WHERE clause. The IN operator is a shorthand for multiple OR conditions.	SELECT <i>columns</i> FROM <i>table</i> WHERE <i>col</i> IN (<i>value1,</i> <i>value2</i>);
AND, OR and NOT The AND operator displays a record if all the conditions	Filter records based on mor Combined with WHERE. SELECT <i>columns</i> FROM <i>table</i> WHERE <i>cond1</i> AND <i>cond2</i> ;		GROUP BY	Groups rows that have the same values into summary rows. Is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.	SELECT <i>columns</i> FROM <i>table</i> WHERE <i>condition</i> GROUP BY <i>columns</i> ORDER BY <i>columns</i> ;
separated by AND are TRUE.			LIKE	Is used in a WHERE clause to search for a specified pattern in a column.	SELECT <i>columns</i> , FROM <i>table</i> WHERE <i>column</i> LIKE <i>pattern</i> ,
The OR operator displays a record if any of the conditions separated by OR is TRUE.	SELECT <i>columns</i> FROM <i>table</i> WHERE <i>cond1</i> OR <i>cond2</i> ;				μαιισπ,



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Not published yet. Last updated 23rd March, 2025. Page 1 of 6.

General Commands (cont)

- 1. The percent sign (%) represents zero, one, or multiple characters 2. The underscore sign (_) represents one, single character
- CASE Goes through conditions and returns a value when the first condition is met (like an if-then-else statement). So, once a condition is true, it will stop reading and return the result. If no conditions are true, it returns the value in the ELSE clause. If there is no ELSE part and no conditions are true, it returns NULL.

CASE

WHEN condition1 THEN result1 WHEN condition2 THEN result2 WHEN conditionN THEN resultN ELSE result END;

General Commands (cont)

HAVING	beca keyv with	added to SQL ause the WHERE word cannot be used aggregate tions.	SELECT <i>columns</i> FROM <i>table</i> WHERE <i>condition</i> GROUP BY <i>columns</i> HAVING <i>condition</i> ORDER BY <i>columns</i> ;
DATABAS	E/TA	BLE	
CREATE SCHEMA		Create a new SQL schema	CREATE SCHEMA <i>sch</i> ;
CREATE DATABAS	E	Create a new SQL schema	CREATE SCHEMA <i>sch</i> ;
DROP SCHEMA		Drop a SQL schema	DROP SCHEMA <i>Sch</i> ;
DROP DATABAS	E	Drop a SQL database	DROP DATABASE <i>db</i> ;
SHOW DATABAS	ES	Check the list of databases	SHOW DATABASES
BACKUP DATABAS	E	Create a full back up o an existing SQL database. Ex: 'E:\test B.bak'	TO DISK = 'filepath';
		A differential back up only backs up the par of the database that have changed since the last full database backup.	WITH DIFFERENTIAL;
CREATE TABLE		Create a new table in database	a CREATE TABLE <i>tb</i> (<i>col1 datatype</i> , <i>col2 datatype</i> , <i>col3 datatype</i>);

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Cheatography

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DATABASE/T	TABLE (cont)		DATABASE	E/TABLE (cont)	
A copy of an existing table can also be	CREATE TABLE <i>tb</i> AS SELECT <i>col1, col2,</i> FROM <i>existing tb</i> WHERE;			My SQL / Oracle ALTER TABLE <i>tb_name</i> MODIFY COLUMN <i>col_name datatype</i> ;	
created using CREATE TABLE. The				Oracle 10G and later ALTER TABLE <i>tb_name</i> MODIFY <i>col_name</i> <i>datatype</i> ;	
new table will be filled with the existing values from the old table			Constraints	 Constraints can be specified when the table is created with the CREATE TABLE statement, or after the table is created with the 	CREATE TABLE <i>tb_name</i> (<i>col1 datatype constraint,</i> <i>col2 datatype constraint</i>);
DROP TABLE	Drop an existing table in a database	DROP TABLE <i>tb</i> ;		ALTER TABLE statement.	<i>)</i> ,
TRUNCATE TABLE	Delete the data inside a table, but not the table itself.	TRUNCATE TABLE <i>tb</i> ;			
ALTER	Is used to add, delete, or modify columns in an		MIN() MAX()	Returns the maximum value in a set of values.	
TABLE Add a	existing table		COUNT()	Returns the number of record counted.	ds. NULL values are not
column in a table	ADD <i>col datatype</i> ;		AVG()	Returns the average value of values are ignored.	an expression. NULL
Delete a column in a table	ALTER TABLE <i>tb</i> DROP COLUMN <i>cot</i> ,		SUM()	Calculates the sum of a set of ignored.	of values. NULL values are
Rename a	ALTER TABLE <i>tb</i>		Arithmetic	Operators	
column in a table	RENAME COLUMN <pre>old_name</pre>		+	Add	
	TO <i>new_name</i> ;		-	Subtract	
Rename a column in a	EXEC sp_rename 'tb_na-		*	Multiply	
table in	me.old_name', 'new_name', 'COLUMN';		%	Divide Modulo	
SQL Server			70	Woddio	
Change the data type of a column in a table	SQL Server / MS Access ALTER TABLE <i>tb_name</i> ALTER COLUMN <i>col_name datatype</i> ;				

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Bitwise Operators

- & Bitwise AND
- | Bitwise OR
- ^ Bitwise exclusive OR

Comparison Operators

Compound Operators		
<>	Not equal to	
<=	Less than or equal to	
>=	Greater than or equal to	
<	Less than	
>	Greater than	
=	Equal to	

+=	Add equals
-=	Subtract equals
*=	Multiply equals
/=	Divide equals
%=	Modulo equals
&=	Bitwise AND equals
^_=	Bitwise exclusive equals
*=	Bitwise OR equals

Logical Operators

ALL	TRUE if all of the subquery values meet the condition
AND	TRUE if all the conditions separated by AND is TRUE
ANY	TRUE if any of the subquery values meet the condition
BETWEEN	TRUE if the operand is within the range of compar- isons
EXISTS	TRUE if the subquery returns one or more records
IN	TRUE if the operand is equal to one of a list of expressions
LIKE	TRUE if the operand matches a pattern
NOT	Displays a record if the condition(s) is NOT TRUE

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Page 4 of 6.

Last updated 23rd March, 2025.

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Logical Operators (cont)

OR TRUE if any of the conditions separated by OR is TRUE

SOME TRUE if any of the subquery values meet the condition

Joining Ta	Joining Tables				
INNER JOIN	Selects records that have matching values in both tables.	SELECT <i>columns</i> FROM <i>table1</i> INNER JOIN <i>table2</i> ON <i>table1.col</i> = <i>table2.cot</i> ,			
LEFT JOIN	Returns all records from the left table (table1), and the matching records (if any) from the right table (table2).	SELECT column_name(s) FROM table1 LEFT JOIN table2 ON table1.column_name = table2.column_name;			
RIGHT JOIN	Returns all records from the right table (table2), and the matching records (if any) from the left table (table1).	SELECT column_name(s) FROM table1 RIGHT JOIN table2 ON table1.column_name = table2.column_name;			
CROSS JOIN	Returns all records from both tables (table1 and table2).	SELECT column_name(s) FROM table1 CROSS JOIN table2;			
SELF JOIN	A self join is a regular join, but the table is joined with itself.	SELECT column_name(s) FROM table1 T1, table1 T2 WHERE condition;			

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Joining Tables (cont)		Date Functions (cont)		
UNION		Combine the result-set of two or more SELECT statements. 1) Every SELECT statement within UNION must have the same number of columns 2) The columns must also have similar data types 3) The columns in every SELECT	CURDATE()	Returns the current date. The date is returned as "- YYYY-MM-DD" (string) or as YYYYMMDD (numeric). This function equals the CURDATE() function. <i>CURDATE()</i>
			CURREN- T_DATE()	Returns the current date. The date is returned as "- YYYY-MM-DD" (string) or as YYYYMMDD (numeric). This function equals the CURRENT_DATE() function. <i>CURRENT_DATE()</i>
		statement must also be in the same order	CURREN- T_TIME()	Returns the current time. The time is returned as "- HH-MM-SS" (string) or as HHMMSS.uuuuuu (numeric). This function equals the CURTIME() function. <i>CURRENT_TIME()</i>
UNION Syntax. <i>Selects only</i> <i>distinct values by default. To allow</i> <i>duplicate values, use UNION ALL</i>		SELECT column_name(s) FROM table1 UNION SELECT column_name(s) FROM table2;		
			CURTIME()	Returns the current time. The time is returned as "- HH-MM-SS" (string) or as HHMMSS.uuuuuu (numeric). This function equals the CURRENT_T-
UNION ALL		SELECT column_name(s) FROM table1		IME() function. <i>CURTIME()</i>
		UNION ALL SELECT column_name(s) FROM table2;	CURREN- T_TIME- STAMP()	Returns the current date and time. The date and time is returned as "YYYY-MM-DD HH-MM-SS" (string) or as YYYYMDDDHHMMSS.uuuuuu (numeric). <i>CURRENT_TIMESTAMP()</i>
Date Functions		DATE()	Extracts the date part from a datetime expression. <i>DATE(expression)</i>	
OR the date.		terval to a date and then returns	DATEDIFF()	Returns the number of days between two date values. <i>DATEDIFF(date1, date2)</i>
		ays)		

 DATE_ADD(date, INTERVAL value addunit)

 ADDTIME()
 Adds a time interval to a time/datetime and then returns the time/datetime. ADDTIME(datetime, addtime)

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Date Functions (cont)		
DATE_F- ORMAT()	Formats a date as specified. <i>DATE_FORMAT(- date, format)</i>	
DATE_SUB()	Subtracts a time/date interval from a date and then returns the date. <i>DATE_SUB(date, INTERVAL value interval)</i>	
DAY() OR DAYOFMONTH	returns the day of the month for a given date (a number from 1 to 31). <i>DAY(date) DAYOFMONT-H(date)</i>	
DAYNAME()	returns the weekday name for a given date. <i>DAYNAME(date)</i>	
DAYOFWEEK()	returns the weekday index for a given date (a number from 1 to 7). 1=Sunday, 2=Monday, 3=Tuesday, 4=Wednesday, 5=Thursday, 6=Friday, 7=Saturday. <i>DAYOFWEEK(date)</i>	
DAYOFWEEK- (date)	returns the day of the year for a given date (a number from 1 to 366). <i>DAYOFYEAR(date)</i>	
EXTRACT()	extracts a part from a given date. <i>EXTRACT(part FROM date)</i>	
FROM_DAYS()	returns a date from a numeric datevalue.is to be used only with dates within the Gregorian calendar. is the opposite of the TO_DAYS() function. <i>FROM_DAYS(number)</i>	
HOUR()	returns the hour part for a given date (from 0 to 838). HOUR(datetime)	
LAST_DAY()	extracts the last day of the month for a given date. LAST_DAY(date)	

Date Functions (cont)		
LOCALT- IME() OR LOCALTIME- STAMP()	returns the current date and time. The date and time is returned as "YYYY-MM-DD HH-MM-SS" (string) or as YYYYMMDDHHMMSS.uuuuuu (numeric). LOCALTIME()	
MAKEDATE()	creates and returns a date based on a year and a number of days value. MAKEDATE(year, day)	
MAKETIME()	Create and return a time value based on an hour, minute, and second value. MAKETIME(hour, minute, second)	
MICROS- ECOND()	Return the microsecond part of a datetime. MICROSECOND(datetime)	

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