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General Co	mmands		General Co	ommands (cont)			
SELECT	Select data from a database.	SELECT column1, column2 FROM table_name;	INSERT INTO	Insert new records in a table INSERT INTO table_name			
SELECT DISTINCT	Return only distinct values.	SELECT DISTINCT column1, column2 FROM table_name;	Specify both the column	(column1, column2, column3) VALUES (value1, value2)			
WHERE	Extract records that fulfill a specified condition.	SELECT column1, column2 FROM table_name WHERE condition;	names and the values.	INSERT INTO table name			
AND, OR and NOT The AND operator displays a	Filter records based on mor Combined with WHERE. SELECT column1, column2 FROM table_name		If you INSERT INTO table_name are VALUES (value1, value2); adding values for all the columns				
record if all the conditions separated by AND are TRUE.	WHERE condition1 AND condition2;		of the table, no need to specify the column names.				
The OR operator displays a	rator column2		NULL		e is a field with no value. A field e that has been left blank during		
record if any of the conditions separated	WHERE condition1 OR condition2;	२	IS NULL Syntax	SELECT column_names FROM table_name WHERE column_name IS NULL;			
by OR is TRUE. The NOT operator	SELECT column1, column2		IS NOT NULL Syntax	SELECT column_names FROM table_name WHERE column_name IS NOT NULL;			
displays a record if the condit- ion(s) is	FROM table_name WHERE NOT condition;		UPDATE	Modify the existing records in a table.	UPDATE table_name SET column1 = value1, column2 = value2 WHERE condition;		
NOT TRUE ORDER	Sort the result-set in	SELECT column1,	DELETE	Delete existing records in a table.	DELETE FROM table_name WHERE condition;		
BY	ascending or descending order. Ascending order is by default.	column2 FROM table_name ORDER BY column1 ASC DESC;					

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General Commands (cont)		General C	General Commands (cont)		
LIMIT	Specify the number of records to return.	SELECT column_name(s) FROM table_name WHERE condition LIMIT number;	HAVING	Was added to SQL because the WHERE keyword cannot be used with aggregate functions	SELECT column_name(s) FROM table_name WHERE condition GROUP BY column_name(s) HAVING condition ORDER BY column_name(s);
IN	Allows to specify multiple values in a WHERE clause. The IN operator is a shorthand for multiple OR conditions. SELECT column_name(s) FROM table_name WHERE column_name	FROM table_name WHERE column_name IN			
			EXISTS	Test for the existence of any record in a subquery. Returns	SELECT column_name(s) FROM table_name WHERE EXISTS
			TRUE if the subquery returns one or more records.	(SELECT column_name FROM table_name WHERE condition);	
	IN (SELECT STATEM- ENT);		ame(s) si an me va AND 1	comparison between a single column valueFROM table_naand a range of otheroperator ANYvalues.(SELECT column1.Returns a booleanFROM table_na	SELECT column_name(s) FROM table_name
BETWEEN	Selects values within a given range. The values can be numbers, text, or dates. <i>Is inclusive</i> .	SELECT column_name(s) FROM table_name WHERE column_name BETWEEN value1 AND value2;			WHERE column_name operator ANY (SELECT column_name FROM table_name WHERE condition);
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	SELECT column_name(s) FROM table_name WHERE condition GROUP BY column_na- me(s) ORDER BY column_na- me(s);			

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General Commands (cont)		General Commands (cont)		
ALL	Returns: <i>1. A boolean value as a result</i> <i>2. Returns TRUE if ALL of the</i> <i>subquery values meet the</i>	INSERT INTO SELECT	table. Requires that the c	ble and Inserts it into another lata types in source and target ting records in the target table
	condition 3. Is used with SELECT, WHERE and HAVING statem-		<i>Copy all columns from one table to another table</i>	INSERT INTO table2 SELECT * FROM table1 WHERE condition;
	<i>ents.</i> ALL means that the condition will be true only if the operation is true for all values in the range.		Copy only some columns from one table into another table	INSERT INTO table2 (col1, col2) SELECT col1, col2 FROM table1 WHERE condition;
ALL Syntax With SELECT	SELECT ALL column_name(s) FROM table_name WHERE condition;			
ALL Syntax With WHERE or HAVING SELECT column_name WHERE column_name operator ALL (SELECT column_name FROM table_name WHERE condition);				

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General Commands (cont)			DATABASE/TABLE (cont)		
an the (lik	d returns a value when e first condition is met re re an if-then-else	CASE WHEN condition1 THEN esult1 WHEN condition2 THEN esult2	CREATE TABLE	Create a new table in a database	CREATE TABLE <i>tb</i> (<i>col1 datatype</i> , <i>col2 datatype</i> , <i>col3 datatype</i>);
		ELSE result	A copy of an existing table can also be created using CREATE TABLE. The new table	CREATE TABLE <i>tb</i> AS SELECT <i>col1, col2,</i> FROM <i>existing tb</i> WHERE;	
DATABASE			will be filled		
CREATE SCHEMA	Create a new SQL schema	CREATE SCHEMA <i>sch</i> ;	with the existing		
DROP SCHEMA	Drop a SQL schema	DROP SCHEMA Sch;	values from the old table		
	_path = sch;		DROP TABLE	Drop an existing table in a database	DROP TABLE <i>tb</i> ;
CREATE DATABASE DROP	Create a new SQL database Drop a SQL database	CREATE DATABASE <i>db</i> ;	TRUNCATE	Delete the data inside a table, but not the table itself.	TRUNCATE TABLE <i>tb</i> ;
DATABASE	Create a full back up of	BACKUP DATABASE db	ALTER	Is used to add, delete, or n	nodify columns in an
DATABASE		TO DISK = 'filepath';	TABLEAdd acolumn in atable	existing table ALTER TABLE <i>tb</i> ADD <i>col datatype</i> ;	
	A differential back up only backs up the parts of the database that hav changed since the last	BACKUP DATABASE <i>db</i> TO DISK = <i>'filepath'</i> with DIFFERENTIAL;	Delete a column in a table	ALTER TABLE <i>tb</i> DROP COLUMN <i>cot</i> ;	
	full database backup.		Rename a column in a table	ALTER TABLE <i>tb</i> RENAME COLUMN <i>old_name</i> TO <i>new_name</i> ;	
			Rename a column in a table in SQL Server	EXEC sp_rename 'tb_na- me.old_name', 'new_name', 'COLUMN';	

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DATABAS	SE/TABLE (cont)	
	SQL Server / MS Access ALTER TABLE <i>tb_name</i> ALTER COLUMN <i>col_name datatype</i> ;	
	My SQL / Oracle ALTER TABLE <i>tb_name</i> MODIFY COLUMN <i>col_name datatype</i> ;	
	Oracle 10G and later ALTER TABLE <i>tb_name</i> MODIFY <i>col_name</i> <i>datatype</i> ;	
Constr- aints	Constraints can be specified when the table is created with the CREATE TABLE statement, or after the table is created with the ALTER TABLE statement.	CREATE TABLE <i>tb_name</i> (<i>col1 datatype constraint,</i> <i>col2 datatype constraint</i>);

Numeric F	Numeric Functions			
MIN()	Returns the minimum value in a set of values.			
MAX()	Returns the maximum value in a set of values.			
COUNT()	Returns the number of records. NULL values are not counted.			
AVG()	Returns the average value of an expression. NULL values are ignored.			
SUM()	Calculates the sum of a set of values. NULL values are ignored.			
Arithmetic	Arithmetic Operators			

+	Add			
-	Subtract			
*	Multiply			
/	Divide			

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%	Modulo				
Bitwise	Bitwise Operators				
&	Bitwise AND				
	Bitwise OR				
٨	Bitwise exclusive OR				
Compa	irison Operators				
=	Equal to				
>	Greater than				
<	Less than				
>=	Greater than or equal to				
<=	Less than or equal to				
<>	Not equal to				

Compound Operators				
+=	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		

Arithmetic Operators (cont)

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Logical (Operators (cont)		Joining Tables	(cont)	
LIKE NOT OR SOME Joining T INNER JOIN	 Displays a record if the condition(s) is NOT TRUE TRUE if any of the conditions separated by OR is TRUE TRUE if any of the subquery values meet the condition Ing Tables ER Selects records that SELECT column_name(s)		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 statement must also be in the same order
LEFT JOIN	Returns all records from the left table (table1), and the matching	ON table1.column_name = table2.column_name; SELECT column_name(s) FROM table1 LEFT JOIN table2	values by defa	. Selects only distinct ult. To allow rs, use UNION ALL	SELECT column_name(s) FROM table1 UNION SELECT column_name(s) FROM table2;
right Join	records (if any) from the right table (table2). Returns all records from the right table (table2), and the matching records (if any) from the	ON table1.column_name = table2.column_name; SELECT column_name(s) FROM table1 RIGHT JOIN table2 ON table1.column_name =	UNION ALL		SELECT column_name(s) FROM table1 UNION ALL SELECT column_name(s) FROM table2;
CROSS JOIN SELF JOIN	Ieft table (table1).Returns all records from both tables (table1 and table2).A self join is a regular join, but the table is	table2.column_name;SELECT column_name(s)FROM table1CROSS JOIN table2;SELECT column_name(s)FROM table1 T1, table1 T2	Date Functions ADDDATE() OR DATE_ADD()	adds a time/date inte the date. <i>ADDDATE(date, INT ADDDATE(date, day</i>	erval to a date and then returns TERVAL value addunit) vs) ITERVAL value addunit)
	joined with itself.	WHERE condition;	ADDTIME()	Adds a time interval	to a time/datetime and then etime. <i>ADDTIME(datetime,</i>

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addtime)

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Date Function	Date Fun	
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>	DATE_F- ORMAT() DATE_SU
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.	DAY() OF DAYOFN
CURREN- T_TIME()	CURRENT_DATE() Returns the current time. The time is returned as "- HH-MM-SS" (string) or as HHMMSS.uuuuuu	DAYNAM
	(numeric). This function equals the CURTIME() function. <i>CURRENT_TIME()</i>	DAYOFW
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- IME() function. <i>CURTIME()</i>	DAYOFW (date)
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 YYYYMMDDHHMMSS.uuuuuu (numeric). <i>CURRENT_TIMESTAMP()</i>	EXTRAC
		FROM_D
DATE()	Extracts the date part from a datetime expression. <i>DATE(expression)</i>	
DATEDIFF()	Returns the number of days between two date values. DATEDIFF(date1, date2)	HOUR()
		LAST_DA

Date Functions (c	ont)
DATE_F- ORMAT()	Formats a date as specified. DATE_FORMAT(- date, format)
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)

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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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