

DataBase Concepts Cheat Sheet

by datamansam via cheatography.com/139410/cs/29820/

DDI				
DDL			DQL (cont)	
TABLE COLUMN		Sorts the results of a column alphabeti-	SELECT name_of_ olumn1, name_of_	
Creation			cally or numerically, ascending by default olur	
CREATE TABLE	table_name	ALTER TABLE table_name		name_of_table
	data tura(aina)	_		WHERE conditio
column_name1,	data_type(size), data_type(size), column-	ADD column_name datatype	OR con	
_name3 data_typ		datatype		ASC/DESC;
Renaming	•		Contains	
RENAME old_tal	ble name	ALTER TABLE	SELECT * FROM TableName	WHERE Country
		table_name		('val1', 'val2', 'val3
TO new_table_na	ame;	RENAME old_colum-	CURSOR	
		n_name TO newcolu-	A database cursor is an object that enables a result set. It allows you to process individ	
		mn_name;	query	uai row returned by
Deleting			DECLARE all variables you'll need	
DROP TABLE To	able_Name	ALTER TABLE	DECLARE CURSOR FOR SELECT	DECLARE cursor
		Table_Name DROP	query, where you'll declare a cursor and	_name CURSOR
		COLUMN column_name;	also define the query related to (popul-	select_statement;
DML			ating) that cursor	
ADDING ROWS		DELETING ROWS	OPEN the cursor and FETCH NEXT from	OPEN cursor_na-
INSERT INTO table_name (column1, DELETE FROM		the cursor	me;FETCH NE	
column2, column		table_name		FROM cursor INT variable_list;
VALUES (value1	I, value2, value3,);	WHERE condition (eg,	In the WHILE loop you'll test the	WHILE @@FETO
column2 = value2;		column2 = value2;;	1 1	TATUS = 0 BEGI
UPDATING ROV	WS		@@FETCH_STATUS = 0). If the	FETCH NEXT FR
		, column2 = value2,	2 = value2, condition holds, you'll enter the loop	
		WHERE condition;	BEGIN END block and perform	
			statements inside that block	
DQL			CLOSE the cursor and DEALLOCATE it.	CLOSE cursor_na DEALLOCATE cu
Wildcard Pattern	Matching			_name;
	column2,	FROM table_name	CASE	,
column1,				
	_r%' Finds any values	'a%' Finds any values that start with "a".		
	that have "r" in the second position	ınaı sıarı witn "a".		
	a%o' Finds any values	'%or%' Finds any		
	that start with "a" and	values that have "or" in		
	ends with "o"	any position.		
Sorting				



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DQL (cont)

Goes through conditions and returns the value corresponding to the first true condition (like an if-then-else statement)

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

DDL Examples	
TABLE	COLUMN
Creation	
CREATE TABLE	ALTER TABLE Friends D
friends	
name varchar(100),	ADD id int;
age int);	
Renaming	
RENAME friends	ALTER TABLE fam
TO fam;	RENAME name TO first_name;
Deleting	
DROP TABLE Fam;	ALTER TABLE Fam DROP COLUMN age;

DML Example	
ADDING ROWS	DELETING ROWS
INSERT INTO fam (id, name, age)	DELETE FROM fam
VALUES (1, 'Ross', 31);	WHERE condition (id = 1);

UPDATING ROWS

UPDATE fam SET name = 'Rachel WHERE id = 2;
Geller'

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Wildcard	Pattern	Matching

SELECT column2, FROM table_name column1, WHERE '_r%' Finds any values 'a%' Finds any values column2 that have "r" in the that start with "a". LIKE pattern; second position 'a%o' Finds any values '%or%' Finds any that start with "a" and values that have "or" in ends with "o" any position. Order By

SELECT name_of_column1, name_of_column2 FROM name_of_table WHERE condition1 OR condition2... ASC/DESC;

Contains

SELECT * FROM Customers WHERE Country IN ('Germany', 'France', 'UK');

DECLARE all variables we

NEXT from the cursor

SELECT * FROM Customers
WHERE Country NOT IN ('Germany', 'France', 'UK');

DECLARE @product name

CURSOR

Allows us to update one row at a time or perform an administrative process such as SQL Server database backups in a sequential manner.

need	VARCHAR(MAX), @list_price
Tiood	DECIMAL;
DECLARE CURSOR FOR	DECLARE cursor_product
SELECT naming our cursor	CURSOR FOR SELECT produc-
and the query to find the	t_name, list_price FROM produc-
values it will contain	tion.products;
OPEN the cursor and FETCH	OPEN cursor_product; FETCH

OPEN cursor_product; FETCH
NEXT FROM cursor_product INTO
@product_name, @list_price;



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DQL example (cont)

The WHILE loop to test the weather our condition returned values, when 0 (meaning rows were returned), we fetch the specified values

WHILE @@FETCH_STATUS = 0 BEGIN PRINT
@product_name + CAST(@list_price AS varchar);
FETCH NEXT FROM cursor_product INTO @product_name, @list_price; END;

CLOSE the cursor and DEALLOCATE it.

CLOSE cursor_product; DEALLOCATE cursor_product;

Case

SELECT OrderID, Quantity, CASE WHEN Quantity > 30 THEN 'The quantity is greater than 30' WHEN Quantity = 30 THEN 'The quantity is 30' ELSE 'The quantity is under 30' END AS QuantityText FROM OrderDetails;

SELECT CustomerName,
City, Country FROM
Customers ORDER BY
(CASE WHEN City IS NULL
THEN Country ELSE City
END);

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