

## SQL Cheat Sheet by Rahil (rahilkasimi) via cheatography.com/102433/cs/32112/

COMMANDS					
COMMAND	CODE DESCRIPTION				
Create	CREATE DATABASE <database name=""> CREATE TABLE <table name=""></table></database>				
Drop	DROP DATABASE <database name=""> used to delete an existing data DROP TABLE <table name=""></table></database>				
Truncate	TRUNCATE TABLE <table name=""> used to delete information in the table it delete the table itself</table>				
Alter	ALTER TABLE <table name=""> ADD <column name=""> <data type=""> ALTER TABLE <table name=""> DROP COLUMN <column name=""> ALTER TABLE <table name=""> ALTER COLUMN <column name=""> <alter <column="" column="" name=""></alter></column></table></column></table></data></column></table>	LUMN NAME> <data type=""> columns in a table  NBLE <table name="">  NUMN <column name="">  NBLE <table name=""></table></column></table></data>			
Backup	BACKUP DATABASE <database name=""> TO DISK = '<path>'</path></database>	used to create a backup on an existing database			
Insert	INSERT INTO <table name=""> (<column1>,) VALUES (<value1>,)</value1></column1></table>	used to insert new tuples (rows) in a table  *you do not need to specify all columns if you will add values for all the columns			
Delete	DELETE FROM <table name=""> WHERE <condition></condition></table>	used to delete tuples (rows) from a table *if you don t add the WHERE clause, all rows will be deleted			
Update	UPDATE <table name=""> SET <column name=""> = <new value=""> WHERE <condition></condition></new></column></table>	used to modify existing records in a table			
Select	SELECT <attribute list=""> used to select data from a table  FROM <table name=""> *if you want all attributes of a table used to select data from a table used to select da</table></attribute>				
Union, Intersect, Except	<pre><first select="" statement=""> UNION / INTERSECT / EXCEPT <second select="" statement=""></second></first></pre>	equivalent to the set operations: union, intersection and difference.			
In	SELECT <attribute list=""> FROM <table name=""> WHERE <value> IN <another query="" select=""></another></value></table></attribute>	compares a value with a set of values, returns true if the value is one of the elements of the set.			
Null	<attribute name=""> IS (NOT) NULL</attribute>	used to check whether a value is NULL			
Join	SELECT <attributes list=""> used to join two tables based on a related column between them  ON <join condition="">  WHERE <selection condition=""></selection></join></attributes>				



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COMMANDS (cont)			
Assertion	CREATE ASSERTION <assertion name=""> CHECK (<condition>)</condition></assertion>	used to ensure a certain condition is always met in the database	
Trigger	CREATE TRIGGER <trigger name="">  BEFORE / AFTER  INSERT / UPDATE / DELETE  ON <table name="">  FOR EACH ROW  <trigger body="">  Triggers are activated when a defined action executed for the table</trigger></table></trigger>		
Data Types	Numeric - INT, SMALLINT, DECIMAL(i, j) String - CHAR, CHAR(n), VARCHAR(n) Bit Sring - BIT, BIT(n) Date and Time - DATE, TIME, TIME(i) Timestamp -TIMESTAMP		
Referential Triggered Action	ON DELETE <option> ON UPDATE <option></option></option>	used to set what happens on updating or deleting a tuple (row) in the database that references another row  OPTIONS:  SET NULL  SET DEFAULT  CASCADE	
Renaming (Aliasing)	<table name=""> AS <new name="" table=""> (<new 1="" attribute="" name="">,)</new></new></table>	Relation and attribute names can be renamed for conenience or to remove ambiguity using the keyword AS	
Cross Product (,)	SELECT <attribute list=""> FROM <table 1="">, <table 2=""></table></table></attribute>	used to produce a result table that has the number of rows of the first table multiplied by the number of rows of the second table	
Duplicates	SELECT ALL <attribute list=""> FROM <table name=""> <attribute> LIKE <pattern> <attribute name=""> IS (NOT) NULL SELECT <attributes list=""> FROM <table 1=""> JOIN <table 2=""> ON <join condition=""> WHERE <selection condition=""> SELECT DISTINCT <attribute list=""> FROM <table name=""></table></attribute></selection></join></table></table></attributes></attribute></pattern></attribute></table></attribute>	<b>DISTINCT</b> is used to eliminate duplicates <b>ALL</b> is used to allow duplicates *SELECT  without ALL or DISTINCT is equivalent to ALL	
String Comparisons	<attribute> LIKE <pattern></pattern></attribute>	LIKE is used for string comparisoJ (%) replaces an arbitary number of characters (_) replaces one character	



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COMMANDS (cont)			
Arithmetic Operators	# (+) add # ( ) subtract	# (*) multiply # (/) divide	
Ordering	<select statement=""> ORDER BY <attribute> <asc desc=""></asc></attribute></select>		ORDER BY is used to order the resulting tuples The keyword ASC (ascending) and DESC can be used. *The default is ASC (ascending)
Set Comparisons	SELECT <attribute list=""> FROM <table name=""> WHERE <value> &gt; ALL / ANY <another query="" select=""></another></value></table></attribute>		ANY and ALL can be used with (=, >, >=, <, <=, <>) to compare a value with a set  #CONTAINS Compares two sets and returns true if one set contains the other  #EXISTS It checks whether the result of a nested query is empty or not  #UNIQUE checks if the table has duplicates
Aggregate Functions			#COUNT - Counts how many rows in a particular column  #SUM - adds together all the values in a particular column  #MIN returns the minumum value in a column  #MAX returns the maximum value in a column  #AVG - returns the average of a group of selected values
Types of Join			Inner join Left Join Right Join Full Outer Join
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