SQL (Structured Query Language) in one page

Table of contents: Database Manipulation (CREATE, DROP DATABASE), Table Manipulation (CREATE, ALTER, DROP TABLE, Data Types), Index Manipulation (CREATE, DROP INDEX), Data Manipulation (INSERT, UPDATE, DELETE, TRUNCATE TABLE), Select (SELECT, FROM, WHERE, ORDER BY, GROUP BY, HAVING, Operators, Aggregate functions), Alias, Join, UNION, SELECT INTO/IN, CREATE VIEW.

	Database Manipulation				
CREATE DATABASE database_name	Create a database	CREATE DATABASE My_First_Database			
DROP DATABASE database_name	Delete a database	DROP DATABASE My_First_Database			
	Table Manipulation				
CREATE TABLE "table_name"	Create a table in a database.	CREATE TABLE Person (LastName varchar, FirstName varchar,			
("column_1" "data_type_for_column_1", "column 2" "data_type_for_column 2",	Data Types				
)	Data Type Description	Address varchar,			
	integer(size) Hold integers only. The maximum number	Age int)			
	int(size) of digits are specified in parenthesis.				
	smallint(size)				
	tinyint(size) decimal(size,d) Hold numbers with fractions. The				
	numeric(size,d) maximum number of digits are specified in				
	"size". The maximum number of digits to the right of the decimal is specified in "d".				
	char(size) Holds a fixed length string (can contain letters, numbers, and special characters). The fixed size is specified in parenthesis.				
	varchar(size) Holds a variable length string (can contain letters, numbers, and special characters). The maximum size is specified				
	in parenthesis. date(yyyymmdd) Holds a date				
ALTER TABLE table name ADD column name datatype	Add columns in an existing table.	ALTER TABLE Person ADD Sex char(6)			
ALTER TABLE table name DROP column name datatype	Delete columns in an existing table.	ALTER TABLE Person DROP Sex char(6)			
DROP TABLE table name	Delete a table.	DROP TABLE Person			
-	Index Manipulation				
CREATE INDEX index_name	Create a simple index.	CREATE INDEX PersonIndex			
ON table_name (column_name_1, column_name_2,) CREATE UNIQUE INDEX index name	Create a unique index	ON Person (LastName, FirstName) CREATE UNIQUE INDEX PersonIndex			
ON table name (column name 1, column name 2,)	Create a unique index.	ON Person (LastName DESC)			
DROP INDEX table_name.index_name	Delete a index.	DROP INDEX Person.PersonIndex			
Data Manipulation					
INSERT INTO table_name	Insert new rows into a table.	INSERT INTO Persons			
VALUES (value_1, value_2,)		VALUES('Hussein', 'Saddam', 'White House')			
INSERT INTO table_name (column1, column2,) VALUES (value_1, value_2,)		INSERT INTO Persons (LastName, FirstName, Address) VALUES('Hussein', 'Saddam', 'White House')			
UPDATE table_name	Update one or several columns in rows.	UPDATE Person			
SET column_name_1 = new_value_1, column_name_2 = new_value_2 WHERE column_name = some_value		SET Address = 'ups' WHERE LastName = 'Hussein'			
DELETE FROM table_name	Delete rows in a table.	DELETE FROM Person WHERE LastName = 'Hussein'			
WHERE column_name = some_value					
TRUNCATE TABLE table_name	Deletes the data inside the table.	TRUNCATE TABLE Person			
Select					
SELECT column_name(s) FROM table_name	Select data from a table.	SELECT LastName, FirstName FROM Persons			
SELECT * FROM table_name SELECT DISTINCT column name(s) FROM table name	Select all data from a table.	SELECT * FROM Persons			
SELECT DISTINCT column_name(s) FROM table_name SELECT column_name(s) FROM table_name	Select only distinct (different) data from a table. Select only certain data from a table.	SELECT DISTINCT LastName, FirstName FROM Persons SELECT * FROM Persons WHERE sex='female'			
WHERE column operator value	Operators	SELECT * FROM Persons WHERE Year>1970			
AND column operator value	Operator Description	SELECT * FROM Persons			
OR column operator value AND (OR)	= Equal	WHERE FirstName='Saddam'			
AND (OK) 	◇ Not equal	AND LastName='Hussein'			
	> Greater than	SELECT * FROM Persons WHERE FirstName='Saddam'			
	< Less than	OR LastName='Hussein'			
	>= Greater than or equal	SELECT * FROM Persons WHERE (FirstName='Tove' OR FirstName='Stephen') AND LastName='Svendson'			
	<= Less than or equal				
	BETWEEN Between an inclusive range LIKE Search for a pattern.	SELECT * FROM Persons WHERE FirstName LIKE 'O%'			
	A "%" sign can be used to define wildcards	SELECT * FROM Persons WHERE FirstName LIKE '%a'			
	(missing letters in the pattern) both before and after the pattern.	SELECT * FROM Persons WHERE FirstName LIKE '%la%'			
		CELECE * EDOM D			
SELECT column_name(s) FROM table_name	The IN operator may be used if you know the exact value you				
WHERE column_name IN (value1, value2,)	want to return for at least one of the columns.	WHERE LastName IN ('Hansen','Pettersen')			

			ODDED DV LostNama DESC			
	(optional)	() is a alphabetical and numerical order nd) is a reverse alphabetical and numerical	ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC			
SELECT column_1,, SUM(group_column_name) FROM table_name GROUP BY group_column_name	(like SUM) return th they are called, and impossible to find th values.	as added to SQL because aggregate functions to aggregate of all column values every time of without the GROUP BY function it was the sum for each individual group of column the aggregate functions Description	SELECT Company, SUM(Amount) FROM Sales GROUP BY Company			
	AVG(column)	Returns the average value of a column				
	COUNT(column)	Returns the number of rows (without a NULL value) of a column				
	MAX(column)	Returns the highest value of a column				
	MIN(column) SUM(column)	Returns the lowest value of a column Returns the total sum of a column				
SELECT column_l,, SUM(group_column_name) FROM table_name	could not be used as	added to SQL because the WHERE keyword gainst aggregate functions (like SUM), and	SELECT Company, SUM(Amount) FROM Sales			
GROUP BY group_column_name HAVING SUM(group_column_name) condition value	conditions.	it would be impossible to test for result	GROUP BY Company HAVING SUM(Amount)>10000			
In Some Group_commit_name; containon variate	conditions.	Alias	The state of the s			
CDV DCD	6.1	Allas	GELECITI AL AGE " E STATE			
SELECT column_name AS column_alias FROM table_name	Column name alias		SELECT LastName AS Family, FirstName AS Name FROM Persons			
SELECT table_alias.column_name FROM table_name AS table alias	Table name alias		SELECT LastName, FirstName FROM Persons AS Employees			
		Join	1 7			
SELECT column 1 name, column 2 name,	The INNED 1	OIN returns all rows from both tables where	SELECT Employees.Name, Orders.Product			
FROM first table name		there are rows in first table that do not have	FROM Employees			
INNER JOIN second table name		ble, those rows will not be listed.	INNER JOIN Orders			
ON first_table_name.keyfield = second_table_name.foreign_keyfield			ON Employees.Employee_ID=Orders.Employee_ID			
SELECT column_1_name, column_2_name,	The LEFT JOIN	I returns all the rows from the first table, even	SELECT Employees.Name, Orders.Product			
FROM first_table_name		es in the second table. If there are rows in first	FROM Employees			
LEFT JOIN second_table_name		matches in second table, those rows also will	LEFT JOIN Orders			
ON first_table_name.keyfield = second_table_name.foreign_keyfield	be listed.		ON Employees.Employee_ID=Orders.Employee_ID			
SELECT column_1 _name, column_2 _name, FROM first_table_name	even if there are no m	IN returns all the rows from the second table, natches in the first table. If there had been any	SELECT Employees.Name, Orders.Product FROM Employees			
RIGHT JOIN second_table_name ON first table name.keyfield =	rows in second table rows also would have	that did not have matches in first table, those	RIGHT JOIN Orders ON Employees.Employee ID=Orders.Employee ID			
second table name.foreign keyfield	10 W3 diso Would have	s occii risted.	Olv Employees.Employee_ID Olders.Employee_ID			
		UNION				
SQL Statement 1	Salact all diffe	erent values from SQL Statement 1 and	SELECT E Name FROM Employees Norway			
UNION SQL Statement 2	SQL_Statement_2	rent varies from SQL_Statement_1 and	UNION SELECT E_Name FROM Employees_USA			
SQL_Statement_1		values from SQL_Statement_1 and	SELECT E_Name FROM Employees_Norway			
UNION ALL SQL_Statement_2	SQL_Statement_2		UNION SELECT E_Name FROM Employees_USA			
SELECT INTO/IN						
SELECT column name(s)		able(S) and insert it into another table.	SELECT * INTO Persons backup FROM Persons			
INTO new table name FROM source table name WHERE query		(-)				
SELECT column_name(s) IN external_database_name	Select data from t	table(S) and insert it in another database.	SELECT Persons.* INTO Persons IN 'Backup.db' FROM Persons WHERE City='Sandnes'			
FROM source_table_name WHERE query						
		CREATE VIEW				
CREATE VIEW view name AS		table based on the result-set of a SELECT	CREATE VIEW [Current Product List] AS			
SELECT column_name(s) FROM table_name	statement.		SELECT ProductID, ProductName FROM Products			
WHERE condition		0.000	WHERE Discontinued=No			
OTHER						
Public Domain 2006-2016 <u>Alexander Krassotkin</u>						
W3C COS COS COS COS COS COS COS COS COS CO						