SQL (Structured Query Language) in one page

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CIDATE, DEEDIE, IKONCATE IABEE), Scien (SEESE), IK	<u>KOM, WILKE, OKDI</u>	Database Manipulation	
CREATE DATABASE database_name DROP DATABASE database name	Create a databas Delete a databas	e ·	CREATE DATABASE My_First_Database DROP DATABASE My_First_Database
DROF DATABASE database_name	Delete a databas	Table Manipulation	DROF DATABASE My_First_Database
CREATE TABLE "table_name" ("column_1" "data_type_for_column_1",	Create a table in	a database. Data Types	CREATE TABLE Person (LastName varchar,
"column_2" "data_type_for_column_2",)	Data Type integer(size)	Description Hold integers only. The maximum number of digits are specified in parenthesis.	FirstName varchar, Address varchar, Age int)
	int(size) smallint(size)	Tiold integers only. The maximum number of digits are specified in parentilesis.	
	tinyint(size)		
	decimal(size,d) numeric(size,d)	Hold numbers with fractions. The 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) varchar(size)	Holds a fixed length string (can contain letters, numbers, and special characters). The fixed size is specified in parenthesis. Holds a variable length string (can contain letters, numbers, and special characters). The maximum size is specified in parenthesis.	
ALTER TABLE table_name ADD column_name datatype	Add columns in	an existing table.	ALTER TABLE Person ADD Sex char(6)
DROP TABLE table_name Delete a table. DROP TABLE Person			ALTER TABLE Person DROP Sex char(6) DROP TABLE Person
CREATE INDEX index_name	Create a simple	Index Manipulation	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,) DROP INDEX table_name.index_name	Delete a index.		ON Person (LastName DESC) DROP INDEX Person.PersonIndex
INSERT INTO table name	Insert new rows	Data Manipulation	INSERT INTO Persons
VALUES (value_1, value_2,) INSERT INTO table_name (column1, column2,)	anservate we re-		VALUES('Hussein', 'Saddam', 'White House') INSERT INTO Persons (LastName, FirstName, Address)
VALUES (value_1, value_2,) UPDATE table_name	Update one or se	everal columns in rows.	VALUES('Hussein', 'Saddam', 'White House') UPDATE Person
SET column_name_1 = new_value_1, column_name_2 = new_value_2 WHERE			SET Address = 'ups' WHERE LastName = 'Hussein'
WHERE column_name = some_value DELETE FROM table_name WHERE column_name = some_value	Delete rows in a	table.	DELETE FROM Person WHERE LastName = 'Hussein'
TRUNCATE TABLE table_name	Deletes the data		TRUNCATE TABLE Person
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 only distinct (different) data from a table.		SELECT * FROM Persons SELECT DISTINCT LastName, FirstName FROM Persons
SELECT column_name(s) FROM table_name WHERE column operator value	Select only certa	oin data from a table. Operators	SELECT * FROM Persons WHERE sex='female' SELECT * FROM Persons WHERE Year>1970
AND column operator value OR column operator value AND (OR)	Operator	Description Equal	SELECT * FROM Persons WHERE FirstName='Saddam'
	\$	Not equal Greater than	AND LastName='Hussein' SELECT * FROM Persons WHERE FirstName='Saddam'
	< >=	Less than Greater than or equal	OR LastName='Hussein' SELECT * FROM Persons WHERE
	<= BETWEEN	Less than or equal	(FirstName='Tove' OR FirstName='Stephen') AND LastName='Svendson'
	LIKE	Search for a pattern. A "%" sign can be used to define wildcards (missing letters in the pattern) both before and after the pattern.	SELECT * FROM Persons WHERE FirstName LIKE '0%' SELECT * FROM Persons WHERE FirstName LIKE '%a'
SELECT column_name(s) FROM table_name	The IN operator	may be used if you know the exact value you want to return for at least one of the columns.	SELECT * FROM Persons WHERE FirstName LIKE '%la%' SELECT * FROM Persons
WHERE column_name IN (value1, value2,) SELECT column_name(s) FROM table_name	Select data from a table with sort the rows.		WHERE LastName IN ('Hansen', 'Pettersen') SELECT * FROM Persons
ORDER BY row_1, row_2 DESC, row_3 ASC,	Note:		ORDER BY LastName SELECT FirstName, LastName FROM Persons
	 ASC (ascend) is a alphabetical and numerical order (optional) DESC (descend) is a reverse alphabetical and numerical order 		ORDER BY LastName DESC SELECT Company, OrderNumber FROM Orders ORDER BY Company DESC, OrderNumber ASC
SELECT column_l,, SUM(group_column_name) FROM table_name	GROUP BY was added to SQL because aggregate functions (like SUM) return the aggregate of all column values every time they are called, and without the GROUP BY function it was impossible to find the sum for each individual group of column values.		SELECT Company, SUM(Amount) FROM Sales
GROUP BY group_column_name	Some aggregate functions		GROUP BY Company
	AVG(column)	Returns the average value of a column	
	COUNT(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		added to SQL because the WHERE keyword could not be used against aggregate functions (like SUM), and without HAVING it would to for result conditions.	SELECT Company, SUM(Amount) FROM Sales
GROUP BY group_column_name HAVING SUM(group_column_name) condition value		A 1*	GROUP BY Company HAVING SUM(Amount)>10000
SELECT column_name AS column_alias FROM table_name	Column name alias	Alias	SELECT LastName AS Family, FirstName AS Name
SELECT table_alias.column_name FROM table_name AS table_alias	Table name alias		FROM Persons SELECT LastName, FirstName FROM Persons AS Employees
		Join	
SELECT column_l_name, column_2_name, FROM first_table_name INNER JOIN second_table_name	The INNER JO rows will not be liste	IN returns all rows from both tables where there is a match. If there are rows in first table that do not have matches in second table, those ed.	SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders
ON first_table_name.keyfield = second_table_name.foreign_keyfield			ON Employees.Employee_ID=Orders.Employee_ID
SELECT column_l_name, column_2_name, FROM first_table_name		N returns all the rows from the first table, even if there are no matches in the second table. If there are rows in first table that do not have able, those rows also will be listed.	SELECT Employees.Name, Orders.Product FROM Employees
LEFT JOIN second_table_name ON first_table_name.keyfield =			LEFT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID
second_table_name.foreign_keyfield SELECT column_l_name, column_2_name, FROM first_table_name		IN returns all the rows from the second table, even if there are no matches in the first table. If there had been any rows in second table that is in first table, those rows also would have been listed.	SELECT Employees.Name, Orders.Product FROM Employees
RIGHT JOIN second_table_name ON first_table_name.keyfield =	ord not have materic	S III III SI III II S II II S II I S II II	RIGHT JOIN Orders ON Employees.Employee_ID=Orders.Employee_ID
second_table_name.foreign_keyfield		UNION	
SQL_Statement_1 UNION	Select all differe	ent values from SQL_Statement_1 and SQL_Statement_2	SELECT E_Name FROM Employees_Norway UNION
SQL_Statement_1	Select all values	from SQL_Statement_1 and SQL_Statement_2	SELECT E_Name FROM Employees_USA SELECT E_Name FROM Employees_Norway
UNION ALL SQL_Statement_2			UNION SELECT E_Name FROM Employees_USA
SELECT column_name(s)	Select data from	SELECT INTO/IN table(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	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 view_name AS	Create a vieto-1	CREATE VIEW table based on the result-set of a SELECT statement.	CREATE VIEW [Current Product List] AS
SELECT column_name(s) FROM table_name	Create a virtual l	Tutto di mo result sei di a delle i statement.	SELECT ProductID, ProductName FROM Products
WHERE condition		OTHER	WHERE Discontinued=No

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