SQL Reference guide by Dennis Cassøe, v. 1.01

The following is mainly for access-databases, but most of it should also work with a MS-SQL server. Send comments and expansions to suggest@cassoee.dk

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General SQL	Simple operations
General:	Arithmetical operations (+,-,*,/):
SELECT table1.attribute1, table 2.attribute2	SELECT attribute1, attribute2*100
FROM table 1, table 2	SELECT attribute1-3, (attribute2+5)*100
WHERE table 1.attributeID = table2.attributeID	, ,
AND Somthing_that_has_to_be_evaluated_to_true	Dates: WHERE Created = #dd-mm-yyyy#
OR	Change the attributes name:
	SELECT attribute1 AS NewName
SELECT attributes	
FROM table1 t1 INNER JOIN table2 t2 ON t1.attributeID=t2.attributeID	Use abbreviations for table names in SQL:
WHERE Somthing_that_has_to_be_evaluated_to_true	SELECT t1.attributeA, t2.attributeC
	FROM table1 t1, table2 t2
Sorting the results:	
SELECT * FROM TableA ORDER BY attribute1 asc, attributenavn2 desc	Comparisons in the where-clause
asc: Ascending, desc: Descending	<> (not), =, >, >=, <, <=
	Between AND
Remove duplicates:	IN (list over values comma-separated)
SELECT DISTINCT attribute1	LIKE (Text comparison)
	IS NULL
Joins	Functions
Ordinary join:	Calculate Periods between dates:
TableA INNER JOIN TableB on TableA.ID = TableB.ID	Datediff("type_of_periods", start, end)
/	Type_of_periods: d (day), m (month), yyyy (year)
LEFT/RIGHT, FULL OUTER JOIN:	Now() is the systems current date
TableA LEFT JOIN TableB on TableA.ID = TableB.ID	Boom the sea Boom 40
Includes the rows from TableA's which would not be included in the join	
Join of three tables:	Generally: Try VB's functions
(TableA INNER JOIN TableB on TableA.ID = TableB.ID) INNER JOIN	
TableC on TableB.ID2 = TableC.ID2	
Aggregate data	Insert, delete or update rows
AVG, COUNT, MAX, MIN, STDDEV, SUM, VARIANCE	Insert a row:
AVG, COUNT, MAX, MIN, STDDEV, SUM, VARIANCE	INSERT INTO TableA (Text1,Number2,Date3)
Can aggregate the total of rows: SELECT COUNT(AttributeA)	VALUES ("A",2,#07-02-1999#)
Can aggregate the total of rows. Seecer Cookin (Attributer)	VALUES (A ,2,1107 02 199911)
Can aggregate in groups	Delete rows:
SELECT SUM(AttributeA), AttributeB	DELETE FROM TABLEA WHERE ID=2
FROM TABLE A	
GROUP BY AttributeB	Update rows:
	UPDATE TableA
HAVING can be used to exclude groups:	SET Tekst1="DC", Tal2=1, Dato3=#07-07-2002#
HAVING SUM(AttributeA) > 100	WHERE Somthing_that_has_to_be_evaluated_to_true
UNION, INTERSECT, EXCEPT	Insert, delete or change tables
UNION: Combines all rows from to tables	Create a table:
INTERSECT: Pick the rows which are in both tables	CREATE TABLE TableA (AttributeA Integer, AttributeB char(15),
EXCEPT: Pick the rows which are in table1 but not in table2	primary key (AttributeA))
IMPORTANT: The tables must have the same number of colums and of	Delete a table: DROP TABLE TableA
the same type.	Append an attribute: ALTER TABLE TableA ADD AttributeC Integer
e	Remove an attribute: ALTER TABLE TableA DROP AttributeC
Ex. SELECT Toyt1 Number 2 EDOM Toble A LINION	
SELECT Text1,Number2 FROM TableA UNION SELECT Text2,Number3 FROM TableB	
Sub queries, subselect, nested queries	Evamples of Sub-gueries, subsolect, posted gueries
A sub query is a complete select-statement embedded in an another	Examples of Sub queries, subselect, nested queries Make a list of all the red wines that are more expensive than
SQL-statement.	the average price for red wines in the database
Because there now are two SELECT's, the main on is called the outer	SELECT w1.Name, w1.price FROM wine w1
and the one situated in the outer's where-clause is called for inner.	WHERE w1.price > (SELECT AVG(w2.price)
and and one ordated in the outer 5 where diduse is called for littlet.	FROM wine w2
Ex.: Find the name and price of the most expensive wine	WHERE w2.type = 'Red')
SELECT Name, price FROM wine	AND w1.type ='Red';
WHERE price = (Select MAX(price) FROM wine);	
Note: The inner query finds the price and the outer specify the result	Make a list of wines currently in one or more orders
	SELECT w.wno, w.Name FROM wine w
Possibilities to combine the two queries:	WHERE w.wno IN (SELECT ol.wno FROM OrderLine ol)
=, >, <, >=, <=	Pland the subtractions with the forest to the second of
IN, NOT IN	Find the white wines, which is more expensive than any of
EXISTS, NOT EXISTS	the red wines:
SOME, ALL (Here you can also use =, >, <, >=, <= in front of some/all)	SELECT w1.wno, w1.Name FROM wine w1 WHERE w1.price > ALL
Some, and	(SELECT w2.price FROM wine w2 WHERE w2.type= 'Red')
Remeber:	AND w1.type = 'White
Do not use ORDER BY in a sub query	
Use explicit references, if there is a reference to a table in the	
outer query	
A sub query must always stand on the right side of an operator	
in the where-clause	