

33:136:370 MIS
SQL Queries - Quick Reference Guide

SELECT		
SELECT expression(s) FROM table	Select data from a table.	SELECT LName, FName FROM Persons
SELECT * FROM table	Select data from all columns from a table.	SELECT * FROM Persons
SELECT DISTINCT expression(s) FROM table	Select only distinct (different) data from a table.	SELECT DISTINCT LName, FName FROM Persons
SELECT expression(s) FROM table(s) WHERE condition(s) <i>Note: an expression can be a field, calculation (e.g. field 1+field2), or a function</i>	Select only certain data from a table.	SELECT * FROM Persons WHERE sex='female'
	Operators	
	<i>Operator</i>	<i>Description</i>
	=	Equal
	<>	Not equal
	>, <, >=, <=	Inequalities
	BETWEEN ... AND ...	Between an inclusive range
	IN(.., .., ..)	Checks if a field is in a list of values
	IS NULL	Checks if a field is empty
	AND, OR, NOT	Logical operators
	LIKE	Search for a pattern. A "*" means: match any number of occurrences of any character; A "?" sign means: match one occurrence of any character.
		SELECT * FROM Persons WHERE Year>#1/1/1970# SELECT * FROM Persons WHERE LName IN ('Hansen','Pettersen') SELECT * FROM Persons WHERE (FName='Tove' OR FName='Stephen') AND LName='Svendson' SELECT * FROM Persons WHERE LName LIKE 'C*' SELECT * FROM Books WHERE Year LIKE '18??'
SELECT expression(s) FROM table(s) ORDER BY expression1, expression2 DESC, ...	Select data from a table sorting the rows. Note: ASC (ascend) is a alphabetical and numerical order DESC (descend) is a reverse alphabetical and numerical	SELECT * FROM Persons ORDER BY LName SELECT FName, LName FROM Persons ORDER BY LName DESC, FName DESC

SELECT expression(s), aggregate_functions(...) FROM table(s) GROUP BY expression(s)	Groups the data and calculates aggregate functions for each group		SELECT Company, SUM(Amount) FROM Sales GROUP BY Company
	Some aggregate functions		
	Function	Description	
	COUNT()	counts the non-blank values (non NULLs)	
	MAX(), MIN(), SUM(), AVG()	Highest, lowest, sum and average values	
SELECT column(s), aggregate_functions(...) FROM table(s) GROUP BY expression(s) HAVING condition(s)	Filters groups		SELECT Company, SUM(Amount) FROM Sales GROUP BY Company HAVING SUM(Amount)>10000
Alias			
SELECT expression AS column_alias FROM table(s)	Column name alias: just for displaying purposes		SELECT LName AS Family, FName AS Given FROM Persons
SELECT table_alias.column FROM table AS table_alias	Table name alias, that can be used in other clauses of the query (since FROM is the first to be read)		SELECT P.LName, P.FName FROM Persons AS P
Join			
SELECT expression(s) FROM first_table INNER JOIN second_table ON condition(s)	The INNER JOIN returns only rows from both tables where the condition(s) hold.		SELECT Employees.Name, Orders.Product FROM Employees INNER JOIN Orders ON Employees.EmployeeID=Orders.EmployeeID
SELECT expression(s) FROM first_table LEFT JOIN second_table ON condition(s)	The LEFT JOIN returns all the rows from the first table, even if there are no matches in the second table.		SELECT Employees.Name, Orders.Product FROM Employees LEFT JOIN Orders ON Employees.EmployeeID=Orders.EmployeeID
SELECT expression(s) FROM first_table RIGHT JOIN second_table ON condition(s)	The RIGHT JOIN returns all the rows from the second table, even if there are no matches in the first table.		SELECT Employees.Name, Orders.Product FROM Employees RIGHT JOIN Orders ON Employees.EmployeeID=Orders.EmployeeID
Adapted from: http://www.cheat-sheets.org/sites/sql.su/			