SQL Cheat Sheet		
Statement	Syntax	Quick Description
SELECT	SELECT [DISTINCT] * LIST OF COLUMNS, FUNCTIONS, CONSTANTS FROM LIST OF TABLES OR VIEWS [WHERE CONDITION(S) [AND OR NOT]] [ORDER BY ORDERING COLUMN(S) [ASC DESC]] [GROUP BY GROUPING COLUMN(S)] [HAVING CONDITION(S)]	Query a set of records. Equivalent to Π _{A1, A2An} (σ _P (r ₁ x r ₂ x r _n)) and returns a relation. SELECT * FROM r1, r2 is Cartesian Product Functions allowed: SUM, AVG, MIN, MAX, COUNT DISTINCT removes duplicates NOTE: ALL QUOTES AROUND STRINGS ARE SINGLE QUOTES! To reference a column in a specific relation, use TABLE.COLUMN_NAME
WHERE	WHERE COLUMN OPERATOR VALUE Set comparisons:WHERE COLUMN OPERATOR ALL SOMEWHERE [NOT] EXISTS RELATIONWHERE [NOT] UNIQUE RELATION	Operators: =, <> (not equal), >, >=, <, <=, BETWEENAND (inclusive range), LIKE (pattern search – use % for wildcards, _ for single character), IN (find value in a set) Value: string in single quotes, numerical value, another attribute, or IS NULL
ORDER BY	ORDER BY COLUMN(S) [ASC DESC]	Sorts results by given columns either ascending or descending
GROUP BY	GROUP BY COLUMN(S)	Used with aggregate functions (like the first part before the huge 'g') to group functions
HAVING	HAVING CONDITION(S)	the hage g) to group functions
UNION INTERSECT SET DIFFERENCE	QUERY UNION QUERY QUERY INNER JOIN QUERY SELECT * from P LEFT JOIN Q on P.id = Q.id where Q.id is NULL;	Union two relations Find the intersection of two relations Perform set difference on two relations
DELETE	DELETE FROM TABLE NAME [WHERE CONDITION(S)]	Delete all the records in a table (or those which match the condition(s))
INSERT	INSERT INTO TABLE NAME [(COLUMN LIST)] VALUES (VALUE LIST)	Insert records into a table
UPDATE	UPDATE TABLE NAME SET COLUMN NAME = VALUE [WHERE CONDITION]	Modify a column/field value in a table, (or in records in the table which match the condition(s)
CREATE TABLE	CREATE TABLE TABLE_NAME (COLUMN_NAME DATA_TYPE [(SIZE)] COLUMN_CONSTRAINT, [, other column definitions,] [, primary key constraint])	Create a new table
CREATE VIEW	CREATE VIEW VIEW_NAME AS QUERY_NAME	Create a new view
WITH	WITH NEW_TABLE(NEW_COLUMNS) AS QUERY	Creates a local view only used in following queries
ALTER	ALTER TABLE TABLE_NAME ADD DROP MODIFY (COLUMN_NAME DATA_TYPE [(SIZE)] COLUMN_CONSTRAINT, [, other column definitions,])	Alter table columns, remove/modify/add columns from (or to) a table.
DROP TABLE	DROP TABLE TABLE_NAME	Delete an entire table
AS	COLUMN_NAME AS COLUMN_NAME	Renames; mainly used to create derived attributes
CONSTRAINT	CONSTRAINT CONSTRAINT_NAME {PRIMARY KEY UNIQUE NOT NULL REFERENCES FOREIGN_TABLE [(FIELD_LIST)]}	Create a table constraint, (with references from another table)

Data types in SQL: char(n), varchar(n), int, smallint, numeric(precision, after-decimal), real, float, not null, date, time, timestamp