Oracle Relational SQL Cheatsheet.

Types			Creating and Deleting Tables			
CHAR(n) CHARACTER(n)	Fixed leng	th string of character n.	CREATE TABLE CREATE TABLE part			
VARCHAR2(n)	Character of varying	string of maximum length n, size.	list>,			
NUMBER	Integers.		(<column name="">)); PRIMARY_KEY(part_number</column>		mber));	
NUMBER(p,s)	Numbers of the decimal	of precision p, with s digits af al point.	CREATE TABLE CREATE TABLE department (department_number CHAR(4))			
DATE TIME BLOB	Date information. (<colum_definition <constraint="" [="" constraint="" information.="" prim_dept="" time="">], PRIMARY_KEY, Binary Large Object.); department_name VARCI</colum_definition>					
CLOB	Character	binary large object.	DROP TABLE Delete table from database.		e.	
NCLOB	National c	haracter sets.	<table_name>;</table_name>			
BFILE	Read only	external file.	ALTED TAD	Changing Tables.	Cuantan	
RAW/LONG RAW	Binary data, used for import and expor Conversions		ADD(CONSTRAINT < constriant_name >		Creates a key consti	
to_char(x)	Conve	:1510115	PRIMARY_KEY	(<column_names>));</column_names>	column.	
to_char(x) to_number(x) to_date(x)	Converts i type.	t's argument to the appropia	ALTER TABLE <table_name></table_name>		employee ADD	
to_multi_byte() to_single_byte()		petween single & multi byte nal strings.	ADD(<colmn_definition>); (departmeter) (VARCHAR</colmn_definition>			
<pre>chartorowid(x) rowidtochar(x)</pre>	Converts of back.	character strings to ROWID's			Creates a constraint	
hextoraw(x) rawtohex(x)	Converts between hex and RAW binar format (see types).		ALTER TABLE <table_name> ADD (CONSTRAINT <constraint_name></constraint_name></table_name>		a column	
Operators				Y(<colum_name>)</colum_name>	table. Opt DELETE (
=,>,<,>=,	Usual comparisons. != & <> & ^= are			RENECES	maintains	
<=,!=,<> AND OR NOT	-	(ON DELETE (ASCADE))		integrity t		
BETWEEN	SELECT en	np_id, name, dept_no FROM • WHEREemp_id BEWTEEN1 .	-		rows in ta row in for is deleted	
	4;			ER TABLE	Relax con:	
IN		mp_id, name, dept_no FRON		NSTRAINT name;		
		WHERE emp_id IN (1,2,3,		R_TABLE	Delete cor	
LIKE		atch. % = n characters, _ =		:NT <constraint_name>; ying and deleting ro</constraint_name>	forever.	
	character, \ escapes. Constraints		INSERT	yilig allu deletilig ro	WS	
NULL/NOT NULL		Allow/don't allow missing values.	INTO <table_name> (<colum_name,>) VALUES (<value,>); INSERT INTO employee (employee_number, employee_name) (value, ('7092', 'FORD', 175,66);</value,></colum_name,></table_name>		oloyee_nan	
[CONSTRAINT < constraint name>		For candidate keys -			175,66);	
UNIQUE (<column_name>,)] alternatives to primary ke</column_name>			UPDATE	UPDATE wine_list		
PRIMARY KEY		This is the key field for look	<pre><table_name> SET <column> =</column></table_name></pre>			

[CONSTRAINT <constraint_name> CHECK (condition)]; FOREIGN KEY</constraint_name>	Verification/validation. This is an index to another table.	WHERE <condition>; DELETE FROM <table_name> [WHERE</table_name></condition>	DELETE FROM members WHERE name	
Single Val	ued Functions	<conditon>]</conditon>	LIKE 'Sharon%';	
Ipad(<string>,<width>, [<char>]); rpad(<string>,</string></char></width></string>	Pad a string to the right or left with the given width with the	· •	serying with Select. SELECT emp_table.emp_id, emp_table.dept_no, dept_table.desc FROM employee_db.emp_table, employee_db.dept_table where emp_table.dept_no = dept_table.dept_no; SELECT * FROM emp ORDER BY empid DESC; -or- SELE empid, lastname FROM emp ORDER BY 2;	
<width>,[<char>]);</char></width>	given char.	Project and Join. SELECT <columns></columns>		
<pre>lower(<string>); uppper(<string>); initcap(<string>);</string></string></string></pre>		FROM WHERE <criterion>;</criterion>		
<pre>length(<string>);</string></pre>	Returns length, in chars of the string.			
<pre>substr(<string>,<start>,</start></string></pre>	Returns a substring from start index, to end index.	Sorting. SELECT . <clauses> ORDER BY <column< td=""></column<></clauses>		
<pre>abs(<number>) sign(<number>)</number></number></pre>	Absolute value and sign numb	[DESC ASC],>;		
<pre>ceil(<number>) floor(<number>)</number></number></pre>	Ceiling and floor: Highest and lowest integer with smallest difference from float.	Grouping. SELECT <select_clauses></select_clauses>	SELECT dept, AVG(salary) FROM emp	
mod(<number0>,</number0>		GROUP BY <column< th=""><th></th></column<>		
<number1>) round(<number0>,</number0></number1>	Remainder of x / y ; Round $x t$	[DESC ASC]> HAVING	HAVING avg(salary)>80000 ORDER BY avg(salary) DESC;	
<number1>)</number1>	decimal places. Truncate x to y decimal places	<criterion>;</criterion>	one of a vig(salary) of our	
trunc(<number0>,</number0>	decimal places	Column		
< <number1>) sqrt(<number>)</number></number1>	Square root.	concatenation - formatting.	SELECT firstname ',' lastname	
greatest(<experession>,)</experession>	•		full_name	
least(<expression>,)</expression>	dates, numbers or strings.	<string> <column></column></string>		
<pre>vsize(<expression>)</expression></pre>	The storage size in bytes for $\boldsymbol{\boldsymbol{x}}$	<column_alias> ;</column_alias>		
sysdate()	Current system date	On the fly		
add_months(<date>, <integer>)</integer></date>	Add given number of month to dates;	calculations. SELECT	SELECT 7 * 9 FROM DUAL;	
last_day(<date>)</date>	Return the last day of the mor	<pre><expression> FROM DUAL;</expression></pre>		
<pre>date1>)</pre>	Return the number of months betwwen two dates/	Column aliasing. SELECT <column> AS <alias_column>;</alias_column></column>	SELECT name, NVL(spouse, 'unmarr	
<pre>new_time(<date>, <current_timezone>, <other_timezone>)</other_timezone></current_timezone></date></pre>	Convert date from one timezo to another.		AS spouse FROM emp_db,emp_table;	
nvl(<column>,<value>)</value></column>	Substitute <value> for NULL i the column.</value>	Subqueries. SELECT WHERE column = (<subquery>);,</subquery>	SELECT empid, dept, salary FROM emp	
soundex(x)	Return soundex string for fuzz matching.		WHERE dept = (SELECT dept FROM emp	
decode(<column>,<value>, <return>,<value>,</value></return></value></column>	For every instance of <value> column return the matching <return> value. A bit like a case/switch.</return></value>		WHERE empid = 78483); Group functions.	
<return>)</return>		avg() stddev() variance()	Average of all numbers in column. Standard deviation f all numbers in column. Variance of all numbers in column.	
		sum(x) count(x)	Sum total of all numbers in the co Toal number of items in a culumn.	
		max(x) min(x)	Maximum value found in a column. Minimum value found in column.	