Oracle Relational SQL Cheatsheet.

Types			Creating and Deleting Tables		
CHAR(n)	Fixed length string of character n.		CREATE TABLE		
CHARACTER(n)	Tixed length string of character in.		/	CREATE TABLE part	
VARCHAR2(n)	Character string of maximum length n, of varying size.		list>,	(part_number CHAR(4), p VARCHAR(25),	
NUMBER	Integers.		(<column name="">)); PRIMARY_KEY(part_numl</column>		mber)) ;
NUMBER(p,s)	Numbers of precision p, with s digits af the decimal point.		CREATE TABLE CREATE TABLE department_number CH (<colum_definition constraint="" prim_depi<="" th=""><th></th></colum_definition>		
DATE	Date information.				AR(4)
TIME	Time information.		[<constraint>],</constraint>		
BLOB	Binary Large Object.); department_name VARC		IAR2(10)]
CLOB	Character binary large object.		DROP TABLE	Delete table from databas	۵
NCLOB	National character sets. <tal< th=""><th><table_name>;</table_name></th><th></th><th>c.</th></tal<>		<table_name>;</table_name>		c.
BFILE	Read only external file.		Changing Tables.		_
RAW/LONG RAW	Binary data, used for import and expor Conversions		ALTER TABLE <table_name> ADD(CONSTRAINT <constriant_name> PRIMARY_KEY (<column_names>));</column_names></constriant_name></table_name>		Creates a key consticulum.
to_char(x) to_number(x) to_date(x)	Converts in type.	t's argument to the appropia	ALTER TABLE <table_name></table_name>		ALTER T/ employee ADD
to_multi_byte() to_single_byte()	Converts between single & multi byte international strings.		ADD (<colmn_definition>);</colmn_definition>		(departm∈ VARCHAR
<pre>chartorowid(x) rowidtochar(x)</pre>	Converts of back.	character strings to ROWID's			Creates a constraint
<pre>hextoraw(x) rawtohex(x)</pre>	Converts between hex and ${\bf RAW}$ binar format (see types).			LE <table_name> NT <constraint_name></constraint_name></table_name>	column, n a column
	Operators		FOREIGN_KEY(<colum_name>)</colum_name>		table. Opt DELETE (
=,>,<,>=, <=,!=,<>	Usual comparisons. != & <> & ^= are negative equality tests.		REFERENECES foriegn_table_name(<foreign_column_name>)</foreign_column_name>		maintains integrity t
AND OR NOT	Boolean operations.		[ON DELETE CASCADE]);		rows in ta
BETWEEN	epmployee WHEREemp_id BEWTEEN1		row in for is deleted.		
	4;	:d dt FDO		ER TABLE NSTRAINT name;	Relax con:
IN		mp_id, name, dept_no FRON • WHERE emp_id IN (1,2,3,		R_TABLE	Delete cor
		atch. % = n characters, _ =		NT <constraint_name>;</constraint_name>	forever.
LIKE		\ escapes.	Modif	ying and deleting ro	ws
	Const	raints	INSERT	-	
NULL/NOT N			<pre>INTO<table_name> (<colum_name,>)</colum_name,></table_name></pre>	<pre>INSERT INTO employee (employee_number, emp salary)</pre>	loyee_nan
[CONSTRAINT <	constraint	For candidate keys -	VALUES (<value,>); VALUES ('7092', 'FORD',</value,>		175,66);
name> UNIQUE (<column_name>,</column_name>		alternatives to primary key	UPDATE		
PRIMARY K		This is the key field for look	<table_name> SET <column> = <value>,</value></column></table_name>	<pre>UPDATE wine_list SET note = "Ideal as an a WHERE wine_name = 'C</pre>	

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[CONSTRAINT <constraint_name> CHECK (condition)];</constraint_name>	Verification/validation. This is an index to another	WHERE <condition>; DELETE FROM <table_name></table_name></condition>	DELETE FROM members	
FOREIGN KEY	table.	[WHERE	WHERE name LIKE 'Sharon%';	
Single Val	ued Functions	<conditon>]</conditon>	·	
<pre>lpad(<string>,<width>, [<char>]); rpad(<string>,</string></char></width></string></pre>	Pad a string to the right or left with the given width with the given char.	Qı Project and Join.	<pre>uerying 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 n empid, lastname FROM emp ORDER BY 2;</pre>	
<pre>lower(<string>); uppper(<string>); initcap(<string>);</string></string></string></pre>	Uppercase, lowercase, or inita upcase the string.	SELECT <columns> FROM</columns>		
<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.	ORDER BY <column< th=""></column<>		
<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	
<pre>mod(<number0>,</number0></pre>	Remainder of x / y; Round x to decimal places. Truncate x to y decimal places	GROUP BY <column [desc asc]=""> HAVING <criterion>; Column concatenation -</criterion></column>	GROUP BY dept HAVING avg(salary)>80000 ORDER BY avg(salary) DESC;	
sqrt(<number>)</number>	Square root. Largest and smallest from a lis dates, numbers or strings. The storage size in bytes for x	formatting.	SELECT firstname ',' lastname full_name FROM team;	
	- · · · · · · · · · · · · · · · · · · ·	;		
<pre>sysdate() add_months(<date>,</date></pre>	Current system date Add given number of month to dates;	On the fly calculations. SELECT	SELECT 7 * 9 FROM DUAL;	
last_day(<date>)</date>	Return the last day of the mor		FROM DUAL,	
	Return the number of months betwwen two dates/	DUAL ; Column aliasing.		
<pre>new_time(<date>, <current_timezone>, <other_timezone>)</other_timezone></current_timezone></date></pre>	Convert date from one timezo to another.	SELECT <column> AS <alias_column>;</alias_column></column>	SELECT name, NVL(spouse, 'unmarr AS spouse FROM emp_db,emp_table;	
nvl(<column>,<value>)</value></column>	Substitute <value> for NULL i the column.</value>	Subqueries.	SELECT empid, dept, salary FROM emp	
soundex(x)	Return soundex string for fuzz matching.	SELECT WHERE column = (<subquery>);,</subquery>	WHERE dept = (SELECT dept FROM emp	
<pre>decode(<column>,<value>,</value></column></pre>	column return the matching		WHERE empid = 78483); Group functions.	
<return>)</return>	<pre><return> value. A bit like a case/switch.</return></pre>	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)	Maximum value found in a column. Minimum value found in column.	

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