

SELECT (349/29) + 12 FROM DUAL; (319/29)+12

UPPER(column | expression) converts alpha characters to upper-case

SELECT Last page

SELECT last name
FROM empl oyees
WHERE UPPER(last_name) = 'ABEL';

• INITCAP(column | expression) converts alpha character values to uppercase for the first letter of each word

EELECT last_name FROM employees WHERE INITCAP(last_name) = 'Abel'

SUBSTR

SELECT SUBSTR('HelloWorld', 1, 5)

SELECT SUBSTR('HelloWorld', 6)

SELECT SUBSTR(last_name, 1, 3)

FROM DUAL:

UPPER

LOWER

World

• CONCAT: Joins two values together

• Takes 2 character string arguments, and joins the second string to the first. could also be written using the concatenation operator - 'Hello' || 'World'

Examples:	Result
SELECT CONCAT('Hellရု', 'World') FROM DUAL;	HelloWorld
SELECT CONCAT(first_name, last_name) FROM employees;	EllenAbel CurtisDavies

CONCAT

INSTR า นาตำแนน่ง

Examples:	Result	
SELECT INSTR('HelloWorld', 'W') FROM DUAL;	6	
SELECT last_name, INSTR(last_name, 'a') FROM employees;	Abel 0 Davies 2	

LPAD ใส่ด้านซ้ายจนกว่าค.ยาวจะครบ

Examples:	Result		
SELECT LPAD('HelloWord', 15, '-') FROM DUAL;	HelloWorld		
SELECT LPAD(last_name, 10, '*') FROM employees;	*****Abel ****Davies 		

TRIM ตัดนั้ว - ท้าย

Examples:	Result	
SELECT TRIM(LEADING 'a' FROM 'abcba') FROM DUAL;	bcba	
SELECT TRIM(TRAILING 'a' FROM 'abcba') FROM DUAL;	abcb	
SELECT TRIM(BOTH 'a' FROM 'abcba') FROM DUAL;	bcb	

มี POP - UP เค้า ใส่:

• If this was the original query:

SELECT first_name, last_name, salary, department_id FROM employees
WHERE department_id= 10;

- -Then run it again with different values: 20, 30, 40... etc.
- It could be re-written as:

SELECT first_name, last_name, salary, department_id FROM employees
WHERE department_id=:enter_dept_id;

• Note the use of : in front of enter_dept_id

RPAD ด้านขวา

Examples:	Result HelloWorld	
SELECT RPAD('HelloWorld', 15, '-') FROM DUAL;		
SELECT RPAD(last_name, 10, '*') FROM employees;	Abel***** Davies****	

REPLACE

REPLACE (string1, string_to_replace, [replacement_string])

- -string1 is the string that will have characters replaced in it
- -string_to_replace is the string that will be searched for and taken out of string1
- -[replacement_string] is the new string to be inserted in string1

Examples:	Result		
SELECT REPLACE('JACK and JUE', 'J', 'BL') FROM DUAL;	BLACK and BLUE		
SELECT REPLACE('JACK and JUE', 'J') FROM DUAL;	ACK and UE		
SELECT REPLACE(last_name, 'a', '*') FROM employees;	Abel D*vies De H**n		



Bind Variable Value

:ENTER_DEPT_ID

Submit

NUMBER

· ROUND ปักเศษ ขึ้น - 29

Syntax:

ROUND(column|expression, decimal places)

•ROUND(45.926) 46 •ROUND(45.926, 0) 40

·MOD นารเอาเศษ

- •ROUND(45.926, 2) 45.93
- If the number of decimal places is a negative number, the number is rounded to that number of decimal places to the left of the decimal point
 ROUND(45.926, -1) 50

• TRUNC ปัดเศษสรรยารเดียว

Syntax:

TRUNC(column|expression, decimal places)

•TRUNC (45.926, 2) 45.92

· SYSDATE วันที่ปัจจบัน

SELECT SYSDATE FROM dual;

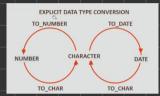
ľ	SYSDATE
ı	01-Jul-2017

	M	סס	of 5	di	ivide	ed l	Dy :	2 i 9	1	
							7			

Description
Number of months between two dates
Add calendar months to date
Date of the next occurance of day of the week specified
Last day of the month
Round date
Truncate date

Implicit data type conversions

FROM	то
VARCHAR2 or CHAR 👵	NUMBER
VARCHAR2 or CHAR	DATE
NUMBER	VARCHAR2
DATE	VARCHAR2



TO_CHAR DD-Mon-YYYY

TO_CHAR (date Column name, 'format model you specify')

YYYY	Full year in numbers
YEAR	Year spelled out
MMO,	Two-digit value for month
MONTH	Full name of the month
MON	Three-letter abbreviation of the month
DY	Three-letter abbreviation of the day of the week
DAY	Full name of the day of the week
DD	Numeric day of the month
DDspth	FOURTEENTH
Ddspth	Fourteenth
ddspth	fourteenth
DDD or DD or D	Day of year, month or week
HH24:MI:SS AM	15:45:32 PM
DD "of" MONTH	12 of October

- The tables show the different format models that can be used
- When specifying time elements, note that hours (HH), minutes (MI), seconds (SS), and AM or PM can also be formatted

Examples:	Output
SELECT TO_CHAR(hire_date, 'Month dd, YYYY') FROM employees;	 June 07, 1994
SELECT TO_CHAR(hire_date, 'fmMonth dd, YYYY') FROM employees;	 June 7, 1994
SELECT TO_CHAR(hire_date, 'fmMonth ddth, YYYY') FROM employees;	June 7th, 1994 January 3rd, 1990

Examples:	Output
SELECT TO_CHAR(hire_date, 'fmDay ddth Mon, YYYY') FROM employees;	Tuesday 7th Jun, 1994
SELECT TO_CHAR(hire_date, 'fmDay ddthsp Mon, YYYY') FROM employees;	Tuesday, seventh Jun, 1994
SELECT TO_CHAR(hire_date, 'fmDay, ddthsp "of" Month, Year')	Tuesday, seventh of June, Nineteen

Examples:	Output
SELECT TO_CHAR(SYSDATE, 'hh:mm') FROM dual;	02:07
SELECT TO_CHAR(SYSDATE, 'hh:mm pm') FROM dual;	02:07 am
SELECT TO_CHAR(SYSDATE, 'hh:mm:ss pre',') FROM dual;	02:07:23 am

number

TO_CHAR(number, 'format model')

 The table illustrates some of the format elements available to use with TO_CHAR functions

SELECT TO_CHAR(salary, '\$99,999') AS "Salary" FROM employees;

Salary	
\$24,000	
\$17,000	

FFFMFM	DESCRIPTION	EXPONELLE	REJUEI
9	Numeric position (# of 9's determine width)	999999	1234
0	Display leading zeros	099999	001234
\$	Floating dollar sign	\$999999	\$1234
L	Floating local currency symbol	L999999	FF1234
	Decimal point in position specified	999999.99	1234.00
	Comma in position specified	999,999	1,234
MI	Minus signs to right (negative values)	999999MI	1234-
PR	Parenthesize negative numbers	999999PR	<1234>
EEEE	Scientific notation (must have four EEEE)	99.999EEEE	1,23E+03
V	Multiply by 10 n times (n= number of 9's after V)	9999V99	9999∨99
В	Display zero values as blank, not	B9999.99	1234.00

SQL:	Output
SELECT TO_CHAR(3000, '\$99999.99') FROM dual;	\$3000.00
SELECT TO_CHAR(4500, '99,999') FROM dual;	4,500
SELECT TO_CHAR(9000, '99,999.99') FROM dual;	9,000.00
SELECT TO_CHAR(4422, '0009999') FROM dual;	0004422

TO _ NUMBER

TO NUMBER(character string, 'format model')

- The format model is optional, but should be included if the character string being converted contains any characters other than numbers
- You cannot reliably perform calculations with character data

```
SELECT TO_NUMBER('5,320', '9,999')
AS "Number"
FROM dual;
```

Number 5320

TO_DATE

SELECT TO_DATE('May10,1989', 'fxMonDD,YYYY') AS "Convert" FROM DUAL;

ORACLE

10-May-1989

คำอาณเออไม่ได้ ตับออนู่ใน cluse CASE EXPRESSion คำอาณ อักษณะ เร-THEN-ELSE

```
CASE expr WHEN comparison_expr1 THEN return_expr1
[WHEN comparison_expr2 THEN return_expr2
WHEN comparison_exprn THEN return_exprn
ELSE else_expr]
END
```

SELECT last_name,

CASE department_id

WHEN 90 THEN 'Management'
WHEN 80 THEN 'Sales'
WHEN 60 THEN 'I'
ELSE 'Other dept.'
END AS "Department"
FROM employees;

DECODE เป็นพื้อก็ชั่ง

```
DECODE(column|expression, search1, result1
     [, search2, result2,...,]
     [, default])
```

SELECT last_name,
DECODE(department_id,
90, 'Management',
80, 'Sales',
60, 'It',
'Other dept.')
AS "Department"
FROM employees;

LESSID WHERE CLUSE 4287277

NATURAL JOIN

bอา คอล้มต์ ที่ชื่อเนมือนกัน มา เทียบ เท่ากัน

SELECT first_name, last_name, job_id, job_title FROM employees NATURAL JOIN jobs

FIRST_NAME	LAST_NAME	JOB_ID	JOB_TITLE
Steven	King	AD_PRES	President
Neena	Kochhar	AD_VP	Administration Vice President
Lex	De Haan	AD_VP	Administration Vice President
Shelley	Higgins	AC_MGR	Accounting Manager
Milliam	Cinta	AC ACCOUNT	Dublic Assessment

Cross Join เอาคุณกัน ex. 8 x 20 = 160

SELECT last_name, department_name FROM employees CROSS JOIN departments;

ex. e. first - name of sit & Qualified

SELECT first_name, last_name, department_id, department_natFROM employees JOIN departments USING (department_id);

FIRST_NAME	LAST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	Whalen	10	Administration
Michael	Hartstein	20	Marketing
Pat	Fay	20	Marketing

บรเผน จะใช้คอลัยต์ ไหน ขอบผ

DN CLUSE เห็นชัดอะไร บอบ อะไร ด้วยเรื่อนไขอะไร

• In this example, the ON clause is used to join the employees table with the jobs table

SELECT last name, job_title

FROM employees e JOIN jobs, ON (e.job_id);

A join ON clause is required when the common columns have different names in the

two tables

King	President
Kochhar	Administration
KOLIIIIai	Vice President
De Haan	Administration
ре паап	Vice President
Whalen	Administration
vvnaien	Assistant
Higgins	Accounting
riggins	Manager
Gietz	Public
Gletz	Accountant
Zlotkey	Sales Manager
Δhel	Sales
Abei	Representative
Taylor	Sales
Taylor	Representative

Pr BETWEEN NO AND

SELECT last_name, salary, grade_level, lowest_sal, highest_sal
FROM employees JOIN job_grades
ON(salary BETWEEN lowest_sal_AND highest_sal);

LAST_NAME	SALARY	GRADE_LEVEL	LOWEST_SAL	HIGHEST_SAL
Vargas	2500	A	1000	2999
Matos	2600	A	1000	2999
Davies	3100	В	3000	5999
Rajs	3500	В	3000	5999
Lorentz	4200	В	3000	5999
Whalen	4400	В	3000	5999
Mourgos	5800	В	3000	5999
Fay	6000	С	6000	9999

Hierarchical

SELECT employee_id, last_name, job_id, manager_id FROM employees START WITH employee_id = 100 CONNECT_BY PRIOR employee_id = manager_id

EMPLOYEE_ID	LAST_NAME	JOB_ID	MANAGER_ID
100	King	AD_PRES	-
101	Kochhar	AD_VP	100
200	Whalen	AD_ASST	101
205	Higgins	AC_MGR	101
206	Gietz	AC_ACCOUNT	205
102	De Haan	AD_VP	100
103	Hunold	IT_PROG	102
104	Ernst	IT_PROG	103

SELECT table1.column, table2.column
FROM table1, table2

WHERE table1.column1 = table2.column2;

