



DSCI 32012 - Advanced Database Applications

Department of Software Engineering

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PL/SQL Tutorial 01

1. Use number built-in functions to get the following outputs from 1589.0374.
 - a. 1589.04
 - b. 1589
 - c. 1500
2. Find the remainder of 109 divided by 5.
3. Display the following string literals.
 - a. Hello World!
 - b. It's now or never
4. Display your full name using,
 - a. CONCAT function
 - b. || operator
 - c. All in capital letters
 - d. All in simple letters
 - e. First letters of each name in capital
5. Display the outputs for the followings.
 - a. SUBSTR('Advanced Database Systems',1,1)
 - b. SUBSTR('Advanced Database Systems',-1,1)
 - c. SUBSTR('Advanced Database Systems',2,9)
 - d. SUBSTR('Advanced Database Systems',10)
 - e. INSTR('Advanced Database Systems','e')
 - f. INSTR('Advanced Database Systems','e',10)
 - g. INSTR('Advanced Database Systems','e',-2)
 - h. INSTR('Advanced Database Systems','a',2,3)
 - i. LPAD('Database',12,'')
 - j. RPAD('Database', 15, '._')
 - k. REPLACE('Teeth','e','o')

6. Display the outputs of followings with different format masks.
 - a. `TO_CHAR(SYSDATE)`
 - b. `TO_CHAR (SYSDATE, 'Day, DDth Month YYYY')`
 - c. `TO_CHAR (SYSDATE, 'FMDay, DDth Month YYYY')` (Note: FM : format element modifier to control blank and zero padding.)
 - d. `TO_CHAR (SYSDATE, 'Q')`
 - e. `TO_CHAR (SYSDATE, 'DDD')`
 - f. `TO_CHAR (SYSDATE, 'YYYY-MM-DD HH:MI:SS')`
 - g. `TO_CHAR (SYSDATE, 'YYYY MON DD HH24:MI:SS')`
7. Write PL/SQL program to display outputs of the following.
 - a. `TO_DATE('10-OCT-19')`
 - b. `TO_DATE ('October 20 2019', 'Month DD YYYY')`
 - c. `TO_CHAR(TO_DATE ('October 20 2019', 'Month DD YYYY'),'Month DD YYYY')`
 - d. `TRUNC (SYSDATE)`
 - e. `TRUNC (SYSDATE, 'MM')`
 - f. `TRUNC (SYSDATE, 'Q')`
 - g. `TRUNC (SYSDATE, 'Y')`
 - h. `SYSDATE + 1`
 - i. `SYSDATE - 1/24`
 - j. `SYSDATE + 10 / (60 * 60 * 24)`
 - k. Get the difference between two dates
 - l. `ADD_MONTHS (SYSDATE, 1)`
 - m. `ADD_MONTHS (SYSDATE, -3)`
 - n. `ADD_MONTHS (TO_DATE ('31-jan-2011', 'DD-MON-YYYY'), 1)`
 - o. `NEXT_DAY (SYSDATE, 'SATURDAY')`
8. Declare a subtype 'DOB' which represents a birthday. Write a simple program to display a variable value which is of this subtype.
9. Write a PL/SQL program to display the name and the location id of the department with department id 200 (Use anchored datatypes to declare variables).