

LAB 04

DATE FUNCTIONS

Function	Description	Example	Result
SYSDATE	Returns current date	SELECT sysdate FROM dual;	If (today = '1/01/2002') Result is '1-jan-02'
ADD_MONTHS(Date, months_to_add)	Returns date retrieved date added to specified months	SELECT ADD_MONTHS(sysdate,3) FROM dual;	If (SYSDATE='1/30/2002') Result is '4/30/2002'
LAST_DAY(Date)	Returns date that is last day of the month	SELECT LAST_DAY(sysdate) FROM dual;	If (SYSDATE='1/20/2002') Result is '1/31/2002'
NEXT_DAY (Date,Day)	Returns the next date of the specified day	SELECT NEXT_DAY(SYSDATE,'TUESDAY') FROM DUAL;	If SYSDATE='23-SEP-2014') Result is '30-Sep-2014'.
MONTHS_BETWEEN(Date1, Date2)	Returns months between two dates specified months	SELECT MONTHS_BETWEEN(SYSDATE,TO_DATE('02-JAN-2002')) FROM dual;	If (SYSDATE='1/1/2002') Result is 1.0322...

Assume sysdate='25-JUL-03' for following table

Function	Result
ROUND(SYSDATE,'MONTH')	01-AUG-03
ROUND(SYSDATE,'YEAR')	01-JAN-04
TRUNC(SYSDATE,'MONTH')	01-JUL-03
TRUNC(SYSDATE,'YEAR')	01-JAN-03

Example of Date Functions

SYSDATE Returns current date

```
SELECT sysdate
FROM dual;
```

If (today = '1/01/2002') Result is '1-JAN-02'

EXAMPLE:

```
SELECT      ENAME, TO_CHAR (HIREDATE, 'MM/DD/YY') HIRE_DATE
FROM EMP
WHERE DEPTNO = 20;
```

- **ADD_MONTHS** (Date, months_to_add) Returns date retrieved date added to specified months

```
SELECT ADD_MONTHS (sysdate,3)
FROM dual;If (SYSDATE='1/30/2002')
Result is '4/30/2002'
```

```
SELECT ADD_MONTHS (HIREDATE, 3)
FROM EMP
WHERE DEPTNO = 20
```

- **LAST_DAY** (Date) Returns date that is last day of the month

```
SELECT LAST_DAY (sysdate)
FROM dual;
If (SYSDATE='1/20/2002')
Result is '1/31/2002'
```

```
SELECT LAST_DAY (HIREDATEA)
FROM EMP
WHERE DEPTNO=20
```

- **MONTHS_BETWEEN**(Date1, Date2) Returns months between two dates specified months

```
SELECT MONTHS_BETWEEN (SYSDATE, HIREDATE)
FROM EMP
WHERE DEPTNO = 20
```

Example

```
SELECT empno, hiredate, months_btween (sysdate, hiredate) Tenure, Add_months
(hiredate, 6) Review, Next_day ( hiredate, 'Friday'), Last_day (hiredate)
FROM emp
```

Where Months_between(sysdate, hiredate)< 36;