

```
SQL> select * from tab;
```

```
TNAME
```

```
TABTYPE          CLUSTERID
```

```
CUSTOMER  
TABLE
```

```
EMPLOYEE  
TABLE
```

```
SALESDATA  
TABLE
```

```
SQL> select chr(65), chr(97) from dual;
```

```
C C  
- -  
A a
```

```
SQL> select * from employee;
```

EMPNO	ENAME	JOB	DEPTNO	SALARY
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000

```
SQL> select concat ('ename', 'job') user_id from employee;
```

```
USER_ID  
-----  
enamejob  
enamejob  
enamejob  
enamejob  
enamejob
```

```
SQL> select concat ('&ename', '&job') user_id from employee;
```

```
Enter value for ename: Nikhill
```

```
Enter value for job: AP
```

```
old 1: select concat ('&ename', '&job') user_id from employee
```

```
new 1: select concat ('Nikhill', 'AP') user_id from employee
```

```
USER_ID  
-----  
NikhillAP  
NikhillAP  
NikhillAP  
NikhillAP  
NikhillAP
```

```
SQL> select concat (ename, job) user_id from employee;
```

```
USER_ID  
-----  
MathiAP  
ArjunASP  
GuganASP  
KarthikProf  
AkalyaAP
```

```
SQL> select * from employee;
```

EMPNO	ENAME	JOB	DEPTNO	SALARY
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000

```
SQL> select initcap('hi my name is nikhill') from dual;
```

```
INITCAP('HIMYNAMEISNI  
-----  
Hi My Name Is Nikhill
```

```
SQL> select instr('Character', 'r', 1, 1) POS1, instr('Character', 'r', 1, 2) POS2, instr('Character', 'a',  
-1, 2) POS3 from Dual;
```

POS1	POS2	POS3
4	9	3

```
SQL> select instr(salesperson, 'n', 1, 1) POS1, instr(salesperson, 'n', 1, 2) POS2, instr(salesperson, 'a', -1, 2) POS3, instr(salesperson, 'y') from customer;
```

POS1	POS2	POS3	INSTR(SALESPERSON, 'Y')
0	0	0	0
2	3	4	6
0	0	0	0
3	4	5	7
3	4	5	7
3	4	5	7

6 rows selected.

```
SQL> select * from customer;
```

CUST_ID	SALE_DATE	SALE_AMOUNT	SALESPERSON	STORE_STATE
ORDER_ID				
1001	07-JAN-20	1200	Raj K	KA
1002	18-JAN-20	1400	Annanya	KA
1003	21-JAN-20	1300	Ismail	NULL

CUST_ID	SALE_DATE	SALE_AMOUNT	SALESPERSON	STORE_STATE
ORDER_ID				
1004	26-JAN-20	3100	Pannanya	ZX
1005	29-JAN-20	4500	Mannanya	CO
1008	19-JAN-20	8000	Fannanya	JK

6 rows selected.

```
SQL> select replace(store_state, 'KA', 'KA/TN') Replaced_States from customer;
```

REPLACED_STATES
KA/TN
KA/TN
NULL
ZX
CO
JK

6 rows selected.

```
SQL> select abs(-102) from dual;
```

ABS(-102)
102

```
SQL> select acos(.28) from dual;
```

ACOS(.28)
1.28700222

```
SQL> select asin(.65) from dual;
```

ASIN(.65)
.707584437

```
SQL> select atan(.65) from dual;
```

ATAN(.65)

.576375221

SQL> select ceil(209.5) from dual;

CEIL(209.5)

210

SQL> select floor(209.5) from dual;

FLOOR(209.5)

209

SQL> select mod(11,3) from dual;

MOD(11,3)

2

SQL> select power(4,3) from dual;

POWER(4,3)

64

SQL> select round(15.1945612, 3) from dual;

ROUND(15.1945612,3)

15.195

SQL> select trunc(12.75, 1) from dual;

TRUNC(12.75,1)

12.7

SQL> select trunc(12.75, -1) from dual;

TRUNC(12.75,-1)

10

SQL> select length(ename) from employee;

LENGTH(ENAME)

5
5
5
7
6

SQL> select lower(ename) from employee;

LOWER(ENAME)

mathi
arjun
gugan
karthik
akalya

SQL> select upper(ename) from employee;

UPPER(ENAME)

MATHI
ARJUN
GUGAN
KARTHIK
AKALYA

SQL> select lower(job) from employee;

LOWER(JOB)

ap
asp
asp
prof
ap

SQL> select lpad(ename, 10, '-') from employee;

```
LPAD(ENAME,10,'-')
```

```
-----  
----Mathi  
----Arjun  
----Gugan  
---Karthik  
----Akalya
```

```
SQL> select lpad(ename, 10, '-'), rpad(ename, 10, '-') from employee;
```

```
LPAD(ENAME,10,'-')
```

```
RPAD(ENAME,10,'-')
```

```
-----  
----Mathi  
Mathi-----
```

```
----Arjun  
Arjun-----
```

```
----Gugan  
Gugan-----
```

```
LPAD(ENAME,10,'-')
```

```
RPAD(ENAME,10,'-')
```

```
-----  
---Karthik  
Karthik---
```

```
----Akalya  
Akalya----
```

```
SQL> select * from employee;
```

EMPNO	ENAME	JOB	DEPTNO	SALARY
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000

```
SQL> select ltrim(job, 'A') from employee;
```

```
LTRIM(JOB,'A')
```

```
-----  
P  
SP  
SP  
Prof  
P
```

```
SQL> select rtrim(job, 'P') from employee;
```

```
RTRIM(JOB,'P')
```

```
-----  
A  
AS  
AS  
Prof  
A
```

```
SQL> select sysdate from dual;
```

```
SYSDATE  
-----  
15-FEB-22
```

```
SQL> select * from customer;
```

CUST_ID	SALE_DATE	SALE_AMOUNT	SALESPERSON	STORE_STATE
1001	07-JAN-20	1200	Raj K	KA
1002	18-JAN-20	1400	Annanya	KA
1003	21-JAN-20	1300	Ismail	NULL

1003

	CUST_ID	SALE_DATE	SALE_AMOUNT	SALESPERSON	STORE_STATE
ORDER_ID					
1004	1004	26-JAN-20	3100	Pannanya	ZX
1005	1005	29-JAN-20	4500	Mannanya	CO
1008	1008	19-JAN-20	8000	Fannanya	JK

6 rows selected.

SQL> select sale_date from customer;

SALE_DATE
07-JAN-20
18-JAN-20
21-JAN-20
26-JAN-20
29-JAN-20
19-JAN-20

6 rows selected.

SQL> select sale_date, add_months(sale_date, 2) from customer;

SALE_DATE	ADD_MONTH
07-JAN-20	07-MAR-20
18-JAN-20	18-MAR-20
21-JAN-20	21-MAR-20
26-JAN-20	26-MAR-20
29-JAN-20	29-MAR-20
19-JAN-20	19-MAR-20

6 rows selected.

SQL> select sale_date, add_months(sale_date, 2), add_months(sale_date, -4) from customer;

SALE_DATE	ADD_MONTH	ADD_MONTH
07-JAN-20	07-MAR-20	07-SEP-19
18-JAN-20	18-MAR-20	18-SEP-19
21-JAN-20	21-MAR-20	21-SEP-19
26-JAN-20	26-MAR-20	26-SEP-19
29-JAN-20	29-MAR-20	29-SEP-19
19-JAN-20	19-MAR-20	19-SEP-19

6 rows selected.

SQL> select sale_date, extract(year from sale_date)YEAR, extract(day from sale_date)DAY from customer;

SALE_DATE	YEAR	DAY
07-JAN-20	2020	7
18-JAN-20	2020	18
21-JAN-20	2020	21
26-JAN-20	2020	26
29-JAN-20	2020	29
19-JAN-20	2020	19

6 rows selected.

SQL> select next_day(sale_date,'mon') from customer;

NEXT_DAY(
13-JAN-20
20-JAN-20
27-JAN-20
27-JAN-20
03-FEB-20
20-JAN-20

6 rows selected.

SQL> select sale_date, round(sale_date, 'MM'), round(sale_date, 'YYYY') from customer;

SALE_DATE	ROUND(SAL	ROUND(SAL
07-JAN-20	01-JAN-20	01-JAN-20
18-JAN-20	01-FEB-20	01-JAN-20
21-JAN-20	01-FEB-20	01-JAN-20
26-JAN-20	01-FEB-20	01-JAN-20
29-JAN-20	01-FEB-20	01-JAN-20
19-JAN-20	01-FEB-20	01-JAN-20

6 rows selected.

SQL> select sale_date, trunc(sale_date, 'MM'), trunc(sale_date, 'YYYY') from customer;

SALE_DATE	TRUNC(SAL	TRUNC(SAL
07-JAN-20	01-JAN-20	01-JAN-20
18-JAN-20	01-JAN-20	01-JAN-20
21-JAN-20	01-JAN-20	01-JAN-20
26-JAN-20	01-JAN-20	01-JAN-20
29-JAN-20	01-JAN-20	01-JAN-20
19-JAN-20	01-JAN-20	01-JAN-20

6 rows selected.

SQL> select months_between(sysdate, '15-Oct-22') from dual;

MONTHS_BETWEEN(SYSDATE, '15-OCT-22')
-8

SQL> select months_between('15-Oct-25', sysdate) from dual;

MONTHS_BETWEEN('15-OCT-25',SYSDATE)
44

SQL> select months_between('1-Jan-21', sysdate) from dual;

MONTHS_BETWEEN('1-JAN-21',SYSDATE)
-13.458571

SQL> spool exit