

show user;

grant connect, resource to tanujadb;

alter session set current_schema=tanujadb;

NUMERICFUNCTIONS

SELECT ceil(24.567) FROM dual;

O/P: 25

SELECT floor(24.567) FROM dual;

O/P: 24

SELECT round(24.567) FROM dual;

O/P: 25

SELECT round(24.567,1) FROM dual;

O/P: 24.6

SELECT round(24.567,-1) FROM dual;

O/P: 20

SELECT trunc(24.567,1) FROM dual;

O/P: 24.5

SELECT power(5,2) FROM dual;

O/P: 25

SELECT sqrt(64) FROM dual;

O/P: 8

SELECT mod(5,2) FROM dual;

O/P: 1

SELECT ceil(sal) FROM emp;

O/P:

	CEIL(SAL)
1	800
2	1600
3	1250
4	2975
5	1250
6	2850
7	2450
8	3000
9	5000
10	1500
11	1100
12	950
13	3000
14	1300

DATEFUNCTIONS

SELECT ename,lpad('*',length(ename),'*') as e FROM emp;

O/P:

	ENAME	E
1	SMITH	*****
2	ALLEN	*****
3	WARD	****
4	JONES	*****
5	MARTIN	*****
6	BLAKE	*****
7	CLARK	*****
8	SCOTT	*****
9	KING	****
10	TURNER	*****
11	ADAMS	*****
12	JAMES	*****
13	FORD	****
14	MILLER	*****

SELECT sysdate FROM dual;

O/P: 06-12-21

SELECT current_date FROM dual;

O/P: 06-12-21

SELECT sysdate+7 FROM dual;

O/P: 13-12-21

SELECT sysdate-7 FROM dual;

O/P: 29-11-21

SELECT ADD_MONTHS(sysdate,3) FROM dual;

O/P: 06-03-22

SELECT MONTHS_BETWEEN(sysdate,'20-MAY-2014') FROM dual;

O/P: 90.56370445041816009557945041816009557945

SELECT LAST_DAY(sysdate) FROM dual;

O/P: 31-12-21

SELECT NEXT_DAY(sysdate,3) FROM dual;

O/P: 07-12-21

SELECT NEXT_DAY(sysdate,1) FROM dual;

O/P: 12-12-21

SELECT NEXT_DAY(sysdate,2) FROM dual;

O/P: 13-12-21

SELECT NEXT_DAY(sysdate,7) FROM dual;

O/P: 11-12-21

SELECT NEXT_DAY(sysdate,'friday') FROM dual;

O/P: 10-12-21

SELECT NEXT_DAY(sysdate,'wednesday') FROM dual;

O/P: 08-12-21

SELECT NEXT_DAY(sysdate+30,'wednesday') FROM dual;

O/P: 12-01-22

SELECT EXTRACT(year FROM sysdate) FROM dual;

O/P: 2021

SELECT EXTRACT(month FROM sysdate) FROM dual;

O/P: 12

SELECT EXTRACT(day FROM sysdate) FROM dual;

O/P: 6

CONVERSIONFUNCTIONS

SELECT TO_CHAR(2560,'\$9,999.0') FROM dual;

O/P: \$2,560.0

SELECT TO_CHAR(2560,'\$0,00,000.00') FROM dual;

O/P: \$0,02,560.00

SELECT TO_CHAR(sal,'\$9,999.00') FROM emp;

O/P:

	TO_CHAR(SAL,'\$9,999.00')
1	\$800.00
2	\$1,600.00
3	\$1,250.00
4	\$2,975.00
5	\$1,250.00
6	\$2,850.00
7	\$2,450.00
8	\$3,000.00
9	\$5,000.00
10	\$1,500.00
11	\$1,100.00
12	\$950.00
13	\$3,000.00
14	\$1,300.00

SELECT TO_CHAR(sysdate,'DD MONTH YYYY') FROM dual;

O/P: 06 DECEMBER 2021

SELECT TO_CHAR(sysdate,'DDth MONTH YY') FROM dual;

O/P: 06TH DECEMBER 21

SELECT TO_CHAR(sysdate,'DDspth MONTH YY') FROM dual;

O/P: SIXTH DECEMBER 21

SELECT TO_DATE('May 22,2014','Month DD, YYYY') FROM dual;

O/P: 22-05-14

SELECT TO_CHAR(sysdate,'D') FROM dual;

O/P: 2

SELECT TO_CHAR(sysdate,'d') FROM dual;

O/P: 2

SELECT TO_CHAR(sysdate,'DD') FROM dual;

O/P: 06

CHARACTERFUNCTIONS

SELECT lower('Oracle') FROM dual;

O/P: oracle

SELECT upper('Oracle') FROM dual;

O/P: ORACLE

SELECT instr('Oracle','a') FROM dual;

O/P: 3

SELECT concat('Oracle','for') FROM dual;

O/P: Oraclefor

SELECT concat(concat('Oracle',' for'),' developers') FROM dual;

O/P: Oracle for developers

SELECT 'Oracle ' || 'for ' || 'Developers' FROM dual;

O/P: Oracle for Developers

SELECT substr('Oracle',2) FROM dual;

O/P: racle

SELECT substr('Oracle',2,2) FROM dual;

O/P: ra

SELECT length('Oracle for Developers') FROM dual;

O/P: 21

SELECT ltrim(' Oracle for Developers') FROM dual;

O/P: Oracle for Developers

SELECT rtrim(' Oracle for Developers ') FROM dual;

O/P: Oracle for Developers

SELECT lpad('Oracle',10,'*') FROM dual;

O/P: ****Oracle

SELECT rpad('Oracle',10,'*') FROM dual;

O/P: Oracle****

MISCELLANEOUSFUNCTIONS

SELECT mgr FROM emp;

O/P:

	MGR
1	7902
2	7698
3	7698
4	7839
5	7698
6	7839
7	7839
8	7566
9	(null)
10	7698
11	7788
12	7698
13	7566
14	7782

SELECT nvl(mgr,0) FROM emp;

O/P:

	NVL(MGR,0)
1	7902
2	7698
3	7698
4	7839
5	7698
6	7839
7	7839
8	7566
9	0
10	7698
11	7788
12	7698
13	7566
14	7782

SELECT NVL2(mgr,0,1) FROM emp;

O/P:

	NVL2(MGR,0,1)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	1
10	0
11	0
12	0
13	0
14	0

SELECT NULLIF(deptno,10) FROM emp;

O/P:

	NULLIF(DEPTNO,10)
1	20
2	30
3	30
4	20
5	30
6	30
7	(null)
8	20
9	(null)
10	30
11	20
12	30
13	20
14	(null)

```
SELECT ename,DECODE (deptno, 10, 'Accounting', 20, 'Research', 30, 'Sales',
'Unknown') AS department FROM emp;
```

O/P:

	ENAME	DEPARTMENT
1	SMITH	Research
2	ALLEN	Sales
3	WARD	Sales
4	JONES	Research
5	MARTIN	Sales
6	BLAKE	Sales
7	CLARK	Accounting
8	SCOTT	Research
9	KING	Accounting
10	TURNER	Sales
11	ADAMS	Research
12	JAMES	Sales
13	FORD	Research
14	MILLER	Accounting

```
SELECT ename,CASE deptno WHEN 10 THEN 'Accounting' WHEN 20 THEN 'Research' WHEN 30
THEN 'Sales' ELSE 'Unknown' END AS department FROM emp;
```

O/P:

	ENAME	DEPARTMENT
1	SMITH	Research
2	ALLEN	Sales
3	WARD	Sales
4	JONES	Research
5	MARTIN	Sales
6	BLAKE	Sales
7	CLARK	Accounting
8	SCOTT	Research
9	KING	Accounting
10	TURNER	Sales
11	ADAMS	Research
12	JAMES	Sales
13	FORD	Research
14	MILLER	Accounting

```
SELECT sal, CASE WHEN sal < 2000 THEN 'category 1' WHEN sal < 3000 THEN 'category 2'
WHEN sal < 4000 THEN 'category 3' ELSE 'category 4' end FROM emp;
```

O/P:

	SAL	CASEWHENSAL<2000THEN'CATEGORY1'WHENSAL<3000THEN'CATEGORY2'WHENSAL<4000THEN'CATEGORY3'ELSE'CATEGORY4'END
1	800	category 1
2	1600	category 1
3	1250	category 1
4	2975	category 2
5	1250	category 1
6	2850	category 2
7	2450	category 2
8	3000	category 3
9	5000	category 4
10	1500	category 1
11	1100	category 1
12	950	category 1
13	3000	category 3
14	1300	category 1

GROUPFUNCTIONS

```
SELECT floor((sysdate-hiredate)/365) FROM emp;
```

O/P:

	FLOOR((SYSDATE-HIREDATE)/365)
1	40
2	40
3	40
4	40
5	40
6	40
7	40
8	39
9	40
10	40
11	38
12	40
13	40
14	39

```
SELECT (sysdate-hiredate)/365 FROM emp;
```

O/P:

	(SYSDATE-HIREDATE)/365
1	40.99874879502790461694571283612379502795
2	40.82066660324708269913749365804160324712
3	40.81518715119228817858954845256215119233
4	40.70833783612379502790461694571283612384
5	40.21792687721968543886352105530187721973
6	40.62888578132927447995941146626078132932
7	40.52203646626078132927447995941146626082
8	39.02066660324708269913749365804160324712
9	40.08094057584982242516489091831557584986
10	40.27272139776763064434297311009639776767
11	38.92751591831557584982242516489091831562
12	40.03710495941146626078132927447995941151
13	40.03710495941146626078132927447995941151
14	39.89737893201420598680872653475393201425

SELECT sal as salary FROM emp;

O/P:

	SALARY
1	800
2	1600
3	1250
4	2975
5	1250
6	2850
7	2450
8	3000
9	5000
10	1500
11	1100
12	950
13	3000
14	1300

SELECT sum(sal) as TotalSalary FROM emp;

O/P: 29025

SELECT min(sal) FROM emp;

O/P: 800

SELECT max(sal) FROM emp;

O/P: 5000

SELECT avg(sal) FROM emp;

O/P: 2073.214285714285714285714285714286

SELECT sum(sal)*12 as TotalSalary FROM emp;

O/P: 348300

SELECT count(*) FROM emp;

O/P: 14

SELECT count(mgr) FROM emp;

O/P: 13

SELECT count(*) FROM emp;

O/P: 14

SELECT count(deptno) FROM emp;

O/P: 14

SELECT count(*) FROM emp GROUP BY deptno;

O/P:

	COUNT(*)
1	6
2	5
3	3

SELECT count(*), deptno FROM emp GROUP BY deptno;

O/P:

	COUNT(*)	DEPTNO
1	6	30
2	5	20
3	3	10

SELECT count(*), deptno FROM emp GROUP BY deptno ORDER BY 2;

O/P:

	COUNT(*)	DEPTNO
1	3	10
2	5	20
3	6	30

SELECT count(*), deptno FROM emp GROUP BY deptno,sal ORDER BY 2;

O/P:

	COUNT(*)	DEPTNO
1	1	10
2	1	10
3	1	10
4	1	20
5	1	20
6	1	20
7	2	20
8	1	30
9	2	30
10	1	30
11	1	30
12	1	30

```
SELECT count(*), deptno FROM emp GROUP BY deptno HAVING count(*)>2 ORDER BY 2;
```

O/P:

	COUNT(*)	DEPTNO
1	3	10
2	5	20
3	6	30

```
SELECT count(*), job FROM emp GROUP BY job HAVING min(sal)>1500;
```

O/P:

	COUNT(*)	JOB
1	1	PRESIDENT
2	3	MANAGER
3	2	ANALYST

DEMO

```
set linesize 300 column sal format A4
```

```
SELECT empno,ename FROM emp WHERE sal>3000;
```

```
SELECT empno,ename,sal FROM emp WHERE sal>3000;
```

```
column sal format A30;
```

```
SELECT empno,ename FROM emp WHERE sal>3000;
```

```
SELECT empno as Employeenumber, ename "Employee Name" FROM emp WHERE sal>3000;
```

```
column "Employee Name" format A30
```

```
SELECT * from emp;
```

```
SELECT ename FROM emp WHERE ename like '%S';
```

```
SELECT ename FROM emp WHERE ename like 'k%';
```

```
SELECT ename FROM emp WHERE ename like 'K%';
```

```
SELECT ename FROM emp WHERE ename like 'SMI_H';
```

```
SELECT ename FROM emp WHERE ename like 'ALL\_N' escape '\';
```

```
SELECT job FROM emp;
```

```
SELECT DISTINCT job FROM emp;
```

```
SELECT ename,sal as salary FROM emp;
```

```
SELECT ename,sal as salary FROM emp ORDER BY sal;
```

```
SELECT ename,sal as salary FROM emp ORDER BY sal desc;
```

```
SELECT ename,sal as salary FROM emp ORDER BY 2 desc;
```

```
SELECT floor((sysdate-hiredate)/365) FROM emp ORDER BY 1;
```

```
SELECT ename FROM emp ORDER BY 1;
```

```
SELECT ename,sal as salary FROM emp ORDER BY 2 desc;
```

```
SELECT ename,sal as salary FROM emp ORDER BY 2 desc,ename desc;
```

```
SELECT sal+comm FROM emp;
```

```
SELECT sal || ' ' || comm FROM emp;
```