

SQL*Plus: Release 21.0.0.0.0 - Production on Thu Dec 11 13:40:35 2025
Version 21.3.0.0.0

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Enter user-name: user1/pass1

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Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> Select * from tab;

TNAME

TABTYPE CLUSTERID

FOOTBALL
TABLE

BIN\$xHIN970CSWCi6v1qAiSrrw==\$0
TABLE

CRICKETERS
TABLE

TNAME

TABTYPE CLUSTERID

PRODUCT
TABLE

BIN\$sw8ZZD1JS+CwDjBI7yZ91Q==\$0
TABLE

EMPLOYEES
TABLE

TNAME

TABTYPE CLUSTERID

BIN\$hX4/d40ASiCDF+DY0M47Rg==\$0
TABLE

CUBOID TABLE

TABTYPE	CLUSTERID
---------	-----------

BIN\$9St92vSPQDOHwyKfMfa7sQ==\$0
TABLE

TNAME

TABTYPE	CLUSTERID
---------	-----------

CUSTOMERS TABLE

13 rows selected.

```
SQL> Select * from football;
```

PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			
9	Halland	28	France	forward	200
173	Baal Bharati				
1	lionel messi	36	Argentina	forward	106
180	Inter miami				
2	Christiano Ronaldo	39	Portugal	forward	128
205	Al-Nasar				
PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			

3	Neymar-jr	33	Brazil	forward	79
128	al-Hilal				
4	Kylian mbappe	26	France	forward	52
80	Real-madrid				
5	De bryan	33	Belgium	Midfield	26
100	Manchester city				

PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			

6	Luka modric	39	Croatia	midfield	24
175	Real madrid				
7	Harry kane	31	england	forward	63
89	Bayern munish				
8	Chhetri	40	India	forward	120
200	Indian club				

PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			

10	Mohammad Salah	31	Egypt	Forward	150
200	Liverpool				
11	Robert Lewandowski	35	Poland	Forward	220
310	Barcelona				
12	Kevin De Bruyne	32	Belgium	Midfield	60
250	Manchester City				

PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			

13	Virgil van Dijk	32	Netherlands	Defender	15
180	Liverpool				
14	Sadio Mane	31	Senegal	Forward	130
220	Bayern Munich				
15	Erling Haaland	23	Norway	Forward	120

150 Manchester City

PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			
16	Karim Benzema	35	France	Forward	200
340	Al-Ittihad				
17	Toni Kroos	34	Germany	Midfield	40
320	Real Madrid				
18	Casemiro	31	Brazil	Midfield	30
310	Manchester				
PID	PNAME	AGE	COUNTRY	POSITION	GOALS
MATCHES	CLUB	GRA			
19	Raheem Sterling	29	England	Forward	110
270	Chelsea				
20	Paulo Dybala	30	Argentina	Forward	90
200	Roma				

20 rows selected.

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql

SQL> Select * from employees;

no rows selected

SQL> desc employees;

Name	Null?	Type
EMP_ID	NOT NULL	NUMBER
EMP_NAME		VARCHAR2(15)
DEPARTMENT		VARCHAR2(15)
SALARY		NUMBER

SQL> INSERT INTO employees (emp_id, emp_name, department, salary)
2 VALUES (101, 'Amit', 'HR', 35000);

1 row created.

```
SQL> INSERT INTO employees (emp_id, emp_name, department, salary)
  2 VALUES (102, 'Rekha', 'Finance', 42000);
```

1 row created.

```
SQL> INSERT INTO employees (emp_id, emp_name, department, salary)
  2 VALUES (103, 'Suman', 'IT', 55000);
```

1 row created.

```
SQL> INSERT INTO employees (emp_id, emp_name, department, salary)
  2 VALUES (104, 'Rohit', 'Marketing', 38000);
```

1 row created.

```
SQL> INSERT INTO employees (emp_id, emp_name, department, salary)
  2 VALUES (105, 'Pooja', 'IT', 60000);
```

1 row created.

```
SQL> Select * from employees;
```

EMP_ID	EMP_NAME	DEPARTMENT	SALARY
101	Amit	HR	35000
102	Rekha	Finance	42000
103	Suman	IT	55000
104	Rohit	Marketing	38000
105	Pooja	IT	60000

```
SQL> edit
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql
```

```
SQL>
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql
```

```
SP2-0023: String not found.
```

```
SQL>
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql
```

```
SP2-0023: String not found.
```

```
SQL>
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql
```

```
SP2-0023: String not found.
```

```
SQL>
```

```
SQL>
```

```
SQL>
```

```
SQL>
SQL>
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql
```

PL/SQL procedure successfully completed.

```
SQL> set serveroutput on ;
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql
begin
*
ERROR at line 1:
ORA-00001: unique constraint (USER1.SYS_C008518) violated
ORA-06512: at line 2
```

```
SQL> Select * from employees;
```

EMP_ID	EMP_NAME	DEPARTMENT	SALARY
101	Amit	HR	35000
102	Rekha	Finance	42000
103	Suman	IT	55000
104	Rohit	Marketing	38000
105	Pooja	IT	60000
106	Neha	HR	36000
107	Manish	IT	52000
108	Kiran	Finance	41000
109	Anjali	Marketing	39000
110	Sagar	IT	58000
111	Meera	HR	34000

EMP_ID	EMP_NAME	DEPARTMENT	SALARY
112	Vikas	Finance	45000
113	Ritu	IT	60000
114	Sameer	Marketing	37000
115	Jyoti	HR	35500
116	Arun	Finance	48000
117	Komal	IT	62000
118	Deepak	Marketing	36500
119	Nisha	HR	33000
120	Rahul	Finance	50000
121	Sonia	IT	59000
122	Lokesh	Marketing	38000

EMP_ID	EMP_NAME	DEPARTMENT	SALARY
--------	----------	------------	--------

```

-----
      123 Tina          HR          32500
      124 Harish       Finance      47000
      125 Alka         IT           64000
      126 Kamal        Marketing    36000
      127 Zara         HR           31500
      128 Farhan       Finance      45500
      129 Payal        IT           60500
      130 Kabir        Marketing    39500

```

30 rows selected.

SQL> Select count(salary) from employees;

```

COUNT(SALARY)
-----
              30

```

SQL> Select sum(salary) from employees;

```

SUM(SALARY)
-----
      1350500

```

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur1.sql

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql

SQL>

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql

SP2-0023: String not found.

SQL>

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql

SP2-0023: String not found.

SQL> @

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql

```

      select sum(salary) from employees ;
      *

```

ERROR at line 7:

ORA-06550: line 7, column 3:

PLS-00428: an INTO clause is expected in this SELECT statement

```
SQL> edit
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
end;
```

```
*
```

```
ERROR at line 12:
```

```
ORA-06550: line 12, column 1:
```

```
PLS-00103: Encountered the symbol "END" when expecting one of the following:
```

```
) , * & | = - + < / > at in is mod remainder not null rem
```

```
returning with => .. <an exponent (**)> <> or != or ~= >= <=
```

```
<> and or default like like2 like4 likec as between error
```

```
from using || multiset member empty submultiset lax strict
```

```
without pretty ascii true false absent format allow truncate
```

```
SQL> edit
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
SQL> @
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
declare
```

```
*
```

```
ERROR at line 1:
```

```
ORA-01001: invalid cursor
```

```
ORA-06512: at line 7
```

```
SQL> edit
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
SQL> @
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
1350500
```

```
PL/SQL procedure successfully completed.
```

```
SQL> edit
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```

```
SQL> edit
```

```
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur2.sql
```


L_SQL_1\cur3.sql

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\P
L_SQL_1\cur3.sql

SQL> desc employees;

Name	Null?	Type
EMP_ID	NOT NULL	NUMBER
EMP_NAME		VARCHAR2(15)
DEPARTMENT		VARCHAR2(15)
SALARY		NUMBER

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\P
L_SQL_1\cur3.sql

SQL> @

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\P
L_SQL_1\cur3.sql

Enter value for salary: 45000

```
old 10:          if salary>=0 && salary<40000 then
new 10:          if salary>=0 45000<40000 then
old 12:          elsif salary>=40001 && salary<60000v then
new 12:          elsif salary>=40001 45000<60000v then
begin
*
```

ERROR at line 5:

ORA-06550: line 5, column 1:

PLS-00103: Encountered the symbol "BEGIN" when expecting one of the following:

:= . (@ % ; not null range default character

The symbol ";" was substituted for "BEGIN" to continue.

ORA-06550: line 10, column 16:

PLS-00103: Encountered the symbol "45000" when expecting one of the following:

* & - + / at mod remainder rem then <an exponent (**)> and or

|| multiset

The symbol "and" was substituted for "45000" to continue.

ORA-06550: line 11, column 10:

PLS-00103: Encountered the symbol "=" when expecting one of the following:

:= . (@ % ;

ORA-06550: line 11, column 27:

PLS-00103: Encountered the symbol ";" when expecting one of the following:

) , * & - + / at mod remainder rem <an exponent (**)> and or

as ||

ORA-06550: line 12, column 23:

PLS-00103: Encountered the symbol "45000" when expecting one of the following:

* & - + / at mod remainder rem then <an exponent (**)> and or

|| multiset

```
SQL> edit
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
old 10:          if salary>=0 && salary<40000 then
new 10:          if salary>=0 45000<40000 then
old 12:          elsif salary>=40001 && salary<60000 then
new 12:          elsif salary>=40001 45000<60000 then
                    if salary>=0 45000<40000 then
                        *
```

```
ERROR at line 10:
```

```
ORA-06550: line 10, column 16:
```

```
PLS-00103: Encountered the symbol "45000" when expecting one of the following:
```

```
* & - + / at mod remainder rem then <an exponent (**)> and or
```

```
|| multiset
```

```
The symbol "and" was substituted for "45000" to continue.
```

```
ORA-06550: line 11, column 10:
```

```
PLS-00103: Encountered the symbol "=" when expecting one of the following:
```

```
:= . ( @ % ;
```

```
ORA-06550: line 11, column 27:
```

```
PLS-00103: Encountered the symbol ";" when expecting one of the following:
```

```
) , * & - + / at mod remainder rem <an exponent (**)> and or
```

```
as ||
```

```
ORA-06550: line 12, column 23:
```

```
PLS-00103: Encountered the symbol "45000" when expecting one of the following:
```

```
* & - + / at mod remainder rem then <an exponent (**)> and or
```

```
|| multiset
```

```
The symbol "and" was substituted for "45000" to continue.
```

```
ORA-06550: line 13, column 10:
```

```
PLS-00103: Encountered the symbol "=" when expecting one of the following:
```

```
:= . ( @ % ;
```

```
ORA-06550: line 13, column 27:
```

```
PLS-00103: Encountered the symbol ";" when expecting one of the following:
```

```
) , * & - + / at mod remainder rem <an exponent (**)> and or
```

```
as ||
```

```
SQL> edit
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
Enter value for empdata: 3
```

```
old 10:          if empdata.salary>=0 && empdata.salary<40000 then
```

```

new 10:          if empdata.salary>=0 3salary<40000 then
old 12:          elsif empdata.salary>=40001 && empdata.salary<60000 then
new 12:          elsif empdata.salary>=40001 3salary<60000 then
                if empdata.salary>=0 3salary<40000 then
                    *

```

ERROR at line 10:

ORA-06550: line 10, column 24:

PLS-00103: Encountered the symbol "3" when expecting one of the following:

* & - + / at mod remainder rem then <an exponent (**)> and or

|| multiset

The symbol "and" was inserted before "3" to continue.

ORA-06550: line 11, column 10:

PLS-00103: Encountered the symbol "=" when expecting one of the following:

:= . (@ % ;

ORA-06550: line 11, column 35:

PLS-00103: Encountered the symbol ";" when expecting one of the following:

) , * & - + / at mod remainder rem <an exponent (**)> and or

as ||

ORA-06550: line 12, column 31:

PLS-00103: Encountered the symbol "3" when expecting one of the following:

* & - + / at mod remainder rem then <an exponent (**)> and or

|| multiset

The symbol "and" was inserted before "3" to continue.

ORA-06550: line 13, column 10:

PLS-00103: Encountered the symbol "=" when expecting one of the following:

:= . (@ % ;

ORA-06550: line 13, column 35:

PLS-00103: Encountered the symbol ";" when expecting one of the following:

) , * & - + / at mod remainder rem <an exponent (**)> and or

as ||

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

SQL> @

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

```

                bonus = (empdata.salary*15)/100;
                    *

```

ERROR at line 11:

ORA-06550: line 11, column 10:

PLS-00103: Encountered the symbol "=" when expecting one of the following:

:= . (@ % ;

ORA-06550: line 11, column 35:

```
PLS-00103: Encountered the symbol ";" when expecting one of the following:
) , * & - + / at mod remainder rem <an exponent (**)> and or
as ||
ORA-06550: line 13, column 10:
PLS-00103: Encountered the symbol "=" when expecting one of the following:
:= . ( @ % ;
ORA-06550: line 13, column 35:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
) , * & - + / at mod remainder rem <an exponent (**)> and or
as ||
```

```
SQL> edit
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
        dbms_output.put_line('name of employee : ' || empdata.name || ' and salary
of ' || empdata.name || 'is' || empdata.salary);
*
```

```
ERROR at line 18:
ORA-06550: line 18, column 56:
PLS-00302: component 'NAME' must be declared
ORA-06550: line 18, column 2:
PL/SQL: Statement ignored
```

```
SQL> edit
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
name of employee : Kabir and salary of Kabiris39500
Bonus obtained is :5925
```

PL/SQL procedure successfully completed.

```
SQL> edit
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
```

```
SQL> @
C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql
name of employee : Kabir and salary of Kabir is 39500
Bonus obtained is :5925
```

PL/SQL procedure successfully completed.

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

SQL> @

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

name of employee : Kabir and salary of Kabir is 39500

Bonus obtained is :5925

PL/SQL procedure successfully completed.

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

SQL>

SQL> @

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

name of employee is Kabir and salary of Kabir is 39500

Bonus obtained is :5925

PL/SQL procedure successfully completed.

SQL> edit

C:\Users\Ayush\OneDrive\Desktop\DATA_SCIENTIST\ORACLE_AND_MONGODB\PRACTISE\PL_SQL\PL_SQL_1\cur3.sql

SQL> Select * from employees;

EMP_ID	EMP_NAME	DEPARTMENT	SALARY
101	Amit	HR	35000
102	Rekha	Finance	42000
103	Suman	IT	55000
104	Rohit	Marketing	38000
105	Pooja	IT	60000
106	Neha	HR	36000
107	Manish	IT	52000
108	Kiran	Finance	41000
109	Anjali	Marketing	39000
110	Sagar	IT	58000
111	Meera	HR	34000
EMP_ID	EMP_NAME	DEPARTMENT	SALARY

112	Vikas	Finance	45000
113	Ritu	IT	60000
114	Sameer	Marketing	37000
115	Jyoti	HR	35500
116	Arun	Finance	48000
117	Komal	IT	62000
118	Deepak	Marketing	36500
119	Nisha	HR	33000
120	Rahul	Finance	50000
121	Sonia	IT	59000
122	Lokesh	Marketing	38000

EMP_ID	EMP_NAME	DEPARTMENT	SALARY
123	Tina	HR	32500
124	Harish	Finance	47000
125	Alka	IT	64000
126	Kamal	Marketing	36000
127	Zara	HR	31500
128	Farhan	Finance	45500
129	Payal	IT	60500
130	Kabir	Marketing	39500

30 rows selected.