SQL\*Plus: Release 18.0.0.0.0 - Production on Tue Oct 15 11:07:47 2024 Version 18.4.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Mon Oct 14 2024 09:54:43

+05:30

#### Connected to:

Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production

Version 18.4.0.0.0

SQL> create table empl\_34(emp\_name varchar(20) primary
key, emp\_street varchar(20), emp\_city varchar(15));

Table created.

SQL> create table comp\_34(comp\_name varchar(20) primary
key, comp\_city varchar(15));

Table created.

SQL> create table works\_34(emp\_name varchar(20) references empl\_34 (emp\_name), comp\_name varchar(20) references comp\_name(comp\_name), salary int); create table works\_34(emp\_name varchar(20) references empl\_34 (emp\_name), comp\_name varchar(20) references comp\_name(comp\_name), salary int)

```
ERROR at line 1:
ORA-00942: table or view does not exist
SQL> create table works 34(emp name varchar(20)
references empl 34(emp name), comp name varchar(20)
references comp 34(comp name), salary int);
Table created.
SQL> create table manages 34(emp name varchar(20)
references empl 34(emp name), manager name varchar(15));
Table created.
SQL> desc empl_34;
 Name
                                            Null? Type
 EMP NAME
                                            NOT NULL
VARCHAR2(20)
 EMP STREET
VARCHAR2(20)
 EMP CITY
VARCHAR2(15)
SQL> desc comp 34;
                                            Null? Type
 Name
                                            NOT NULL
 COMP NAME
VARCHAR2(20)
COMP CITY
VARCHAR2(15)
```

```
SQL> desc works 34;
                                           Null? Type
 Name
 EMP NAME
VARCHAR2(20)
COMP NAME
VARCHAR2(20)
 SALARY
NUMBER(38)
SQL> desc manages 34;
 Name
                                           Null? Type
 EMP NAME
VARCHAR2(20)
MANAGER NAME
VARCHAR2(15)
SQL> insert into empl_34 values ('&emp_name',
'&emp_street', '&emp_city');
Enter value for emp_name: Avinash Kulkarni
Enter value for emp street: GM Road
Enter value for emp city: Pune
old 1: insert into empl 34 values ('&emp name',
'&emp_street', '&emp_city')
new 1: insert into empl 34 values ('Avinash Kulkarni',
'GM Road', 'Pune')
1 row created.
SQL> /
```

```
Enter value for emp name: Govind Pillai
Enter value for emp street: Bandra
Enter value for emp city: Mumbai
old 1: insert into empl 34 values ('&emp name',
'&emp street', '&emp city')
new 1: insert into empl_34 values ('Govind Pillai',
'Bandra', 'Mumbai')
1 row created.
SOL> /
Enter value for emp name: Prathamesh Lonsane
Enter value for emp_street: Vitthalwadi
Enter value for emp city: Delhi
old 1: insert into empl 34 values ('&emp name',
'&emp street', '&emp city')
      1: insert into empl_34 values ('Prathamesh
Lonsane', 'Vitthalwadi', 'Delhi')
1 row created.
SQL> /
Enter value for emp name: Amit Kumar
Enter value for emp_street: Khan Market
Enter value for emp city: Delhi
      1: insert into empl_34 values ('&emp_name',
'&emp_street', '&emp_city')
     1: insert into empl 34 values ('Amit Kumar', 'Khan
Market', 'Delhi')
1 row created.
SQL> /
Enter value for emp name: Adarsh Singh
```

```
Enter value for emp street: Chelakara
Enter value for emp city: Kannur
old 1: insert into empl_34 values ('&emp_name',
'&emp street', '&emp city')
new 1: insert into empl_34 values ('Adarsh Singh',
'Chelakara', 'Kannur')
1 row created.
SQL> select * from empl 34;
                    EMP_STREET EMP_CITY
EMP NAME
Avinash Kulkarni GM Road
                                        Pune
Govind Pillai Bandra
                                   Mumbai
                                       Delhi
Delhi
Prathamesh Lonsane Vitthalwadi
Amit Kumar Khan Market
Adarsh Singh Chelakara
                   Khan Market
                                       Kannur
SQL> insert into comp_34 values ('&comp_name',
'&comp city');
Enter value for comp name: Accenture
Enter value for comp city: Pune
old 1: insert into comp 34 values ('&comp name',
'&comp city')
new 1: insert into comp 34 values ('Accenture', 'Pune')
1 row created.
SQL> /
Enter value for comp name: TCS
Enter value for comp city: Mumbai
old 1: insert into comp 34 values ('&comp name',
'&comp city')
```

```
1: insert into comp 34 values ('TCS', 'Mumbai')
new
1 row created.
SQL> /
Enter value for comp name: Nvidia
Enter value for comp city: Delhi
old 1: insert into comp_34 values ('&comp_name',
'&comp city')
     1: insert into comp 34 values ('Nvidia', 'Delhi')
new
1 row created.
SQL> /
Enter value for comp name: Barclays
Enter value for comp_city: Indore
old 1: insert into comp 34 values ('&comp name',
'&comp city')
new 1: insert into comp 34 values ('Barclays',
'Indore')
1 row created.
SQL> /
Enter value for comp name: Google
Enter value for comp city: Tokyo
old 1: insert into comp 34 values ('&comp name',
'&comp city')
      1: insert into comp 34 values ('Google', 'Tokyo')
new
1 row created.
SQL> select * from comp_34;
```

```
COMP_NAME
                    COMP CITY
Accenture
                    Pune
TCS
                    Mumbai
Nvidia
                    Delhi
Barclays
                 Indore
Google
                    Tokyo
SQL> insert into works 34 values ('&emp name',
'&comp name', &salary);
Enter value for emp name: Avinash Kulkarni
Enter value for comp name: Barclays
Enter value for salary: 105000
     1: insert into works_34 values ('&emp_name',
old
'&comp name', &salary)
new 1: insert into works 34 values ('Avinash Kulkarni',
'Barclays', 105000)
1 row created.
SOL> /
Enter value for emp name: Amit Kumar
Enter value for comp name: TCS
Enter value for salary: 45000
old 1: insert into works 34 values ('&emp name',
'&comp name', &salary)
new 1: insert into works 34 values ('Amit Kumar',
'TCS', 45000)
1 row created.
SQL> /
Enter value for emp_name: Govind Pillai
Enter value for comp name: Accenture
```

```
Enter value for salary: 61850
old 1: insert into works 34 values ('&emp name',
'&comp name', &salary)
     1: insert into works 34 values ('Govind Pillai',
new
'Accenture', 61850)
1 row created.
SQL> /
Enter value for emp name: Prathamesh Lonsane
Enter value for comp name: Google
Enter value for salary: 178500
old 1: insert into works 34 values ('&emp name',
'&comp name', &salary)
new 1: insert into works 34 values ('Prathamesh
Lonsane', 'Google', 178500)
1 row created.
SOL> /
Enter value for emp name: Adarsh Singh
Enter value for comp name: Nvidia
Enter value for salary: 95200
old 1: insert into works 34 values ('&emp name',
'&comp name', &salary)
     1: insert into works 34 values ('Adarsh Singh',
'Nvidia', 95200)
1 row created.
SQL> select * from works 34
 2;
EMP NAME
                                              SALARY
                     COMP NAME
```

```
Avinash Kulkarni
                     Barclays
                                               105000
Amit Kumar
                     TCS
                                                45000
Govind Pillai
                     Accenture
                                                61850
Prathamesh Lonsane Google
                                               178500
Adarsh Singh
                     Nvidia
                                                95200
SQL> alter table manages 34 modify manager name
varchar(30);
Table altered.
SQL> insert into manages 34 values ('&emp name',
'&manager name');
Enter value for emp name: Avinash Kulkarni
Enter value for manager_name: Prathamesh Lonsane
      1: insert into manages 34 values ('&emp name',
old
'&manager name')
      1: insert into manages 34 values ('Avinash
Kulkarni', 'Prathamesh Lonsane')
1 row created.
SQL> /
Enter value for emp name: Amit Kumar
Enter value for manager name: Adarsh Singh
      1: insert into manages 34 values ('&emp name',
'&manager name')
      1: insert into manages 34 values ('Amit Kumar',
'Adarsh Singh')
1 row created.
SQL> /
```

```
Enter value for emp name: Govind Pillai
Enter value for manager name: Jatin Patil
old 1: insert into manages 34 values ('&emp name',
'&manager name')
     1: insert into manages 34 values ('Govind Pillai',
new
'Jatin Patil')
1 row created.
SQL> select* from manages 34;
        MANAGER_NAME
EMP NAME
Avinash Kulkarni Prathamesh Lonsane
Amit Kumar Adarsh Singh
Govind Pillai Jatin Patil
SQL> select emp name from works 34 where comp name =
'TCS';
EMP NAME
Amit Kumar
SQL> select W.emp name, E.emp city from empl 34 E,
works 34 W where W.emp name = E.emp name and W.comp name
= 'TCS';
EMP_NAME EMP_CITY
Amit Kumar Delhi
SQL> select E.emp name, E.emp street, E.emp city,
W.salary from empl 34 E, works 34 W where W.emp name =
```

```
E.emp_name and W.salary > 30000 and W.comp_name = 'TCS';
                    EMP_STREET EMP_CITY
EMP NAME
   SALARY
_ _ _ _ _ _ _ _ _ _
              Khan Market Delhi
Amit Kumar
    45000
SQL> insert into empl 34 values ('&emp name',
'&emp street', '&emp city');
Enter value for emp name: Shardul Chavan
Enter value for emp street: Akola
Enter value for emp city: Nanded
old 1: insert into empl 34 values ('&emp name',
'&emp street', '&emp city')
     1: insert into empl_34 values ('Shardul Chavan',
'Akola', 'Nanded')
1 row created.
SQL> insert into works 34 values ('&emp name',
'&comp name', &salary);
Enter value for emp name: Shardul Chavan
Enter value for comp name: TCS
Enter value for salary: 87542
old 1: insert into works 34 values ('&emp name',
'&comp name', &salary)
     1: insert into works 34 values ('Shardul Chavan',
'TCS', 87542)
1 row created.
SQL> select E.emp name, E.emp street, E.emp city,
```

```
W.salary from empl 34 E, works 34 W where W.emp name =
E.emp name and W.salary > 30000 and W.comp name = 'TCS';
                  EMP_STREET EMP_CITY
EMP NAME
   SALARY
             Khan Market
                                      Delhi
Amit Kumar
    45000
Shardul Chavan Akola
                                      Nanded
    87542
SQL> select E.emp name, E.emp city, C.comp city,
W.comp_name from empl_34 E, works_34 W, comp_34 C where
W.emp name = E.emp name and E.emp city = C.comp city;
EMP NAME
                  EMP_CITY COMP_CITY
COMP NAME
Avinash Kulkarni Pune
                                 Pune
Barclays
         Delhi
Amit Kumar
                                 Delhi
                                                TCS
Govind Pillai Mumbai
                                 Mumbai
Accenture
Prathamesh Lonsane Delhi
                                 Delhi
Google
SQL> select E.emp name, E.emp street, E.emp city,
M.manager name from empl 34 E, works 34 W, manages 34 M
where W.emp name = E.emp name and E.emp name =
M.manager_name;
EMP NAME
                   EMP STREET
                                      EMP CITY
```

MANAGER NAME Prathamesh Lonsane Vitthalwadi Delhi Prathamesh Lonsane Chelakara Adarsh Singh Kannur Adarsh Singh SQL> set linesize 210; SQL> select E.emp name, E.emp street, E.emp city, M.manager name from empl 34 E, works 34 W, manages 34 M where W.emp name = E.emp name and E.emp name = M.manager name; EMP NAME EMP\_STREET EMP\_CITY MANAGER NAME \_\_\_\_\_\_ Prathamesh Lonsane Vitthalwadi Delhi Prathamesh Lonsane Chelakara Adarsh Singh Kannur Adarsh Singh SQL> select emp name from works 34 where comp name != 'TCS'; EMP NAME Avinash Kulkarni Govind Pillai Prathamesh Lonsane

Adarsh Singh

SQL> select comp\_name, max(salary) from works\_34 group by comp\_name;

COMP_NAME	MAX(SALARY)
Barclays	105000
Accenture	61850
TCS	87542
Nvidia	95200
Google	178500

SQL> select comp\_name, max(salary) from works\_34 group by
comp\_name having comp\_name = 'Barclays';

COMP_	_NAME	MAX(SALARY)
Barc	lays	105000

SQL> select comp\_name from works\_34 where salary >
 (select max(salary) from works\_34 group by comp\_name
having comp\_name = 'Barclays');

## COMP\_NAME

\_\_\_\_\_\_

## Google

SQL> select comp\_name, emp\_name from works\_34 where
salary > (select max(salary) from works\_34 group by
comp\_name having comp\_name = 'Barclays');

COMP_NAME	EMP_NAME
Google	Prathamesh Lonsane

```
SQL> select comp city from comp 34 where comp name='TCS';
COMP_CITY
Mumbai
SQL> select comp name from comp 34 where comp city =
(select comp city from comp 34 where comp name='TCS');
COMP_NAME
TCS
SQL> /
Enter value for comp name: SAP Labs
Enter value for comp city: Mumbai
old 1: insert into comp 34 values ('&comp name',
'&comp_city')
new 1: insert into comp 34 values ('SAP Labs',
'Mumbai')
1 row created.
SQL> select comp_name from comp_34 where comp_city =
(select comp city from comp 34 where comp name='TCS');
COMP NAME
TCS
SAP Labs
SQL> select avg(salary) from works_34 group by comp_name;
AVG(SALARY)
```

-----

105000

61850

66271

95200

178500

SQL> select emp\_name from works\_34 where salary > ALL
(select avg(salary) from works\_34 group by comp\_name);

no rows selected

SQL> select emp\_name from works\_34 where salary > ALL
(select avg(salary) from works\_34 group by comp\_name
having comp\_name='TCS');

### EMP NAME

-----

Avinash Kulkarni Prathamesh Lonsane Adarsh Singh Shardul Chavan

SQL> select emp\_name, salary from works\_34 where salary >
ALL (select avg(salary) from works\_34 group by comp\_name
having comp\_name='TCS');

EMP_NAME	SALARY
Avinash Kulkarni	105000
Prathamesh Lonsane	178500
Adarsh Singh	95200
Shardul Chavan	87542

```
SQL> select comp_name, count(*) from works_34 group by
comp name;
COMP_NAME COUNT(*)
Barclays
                             1
Accenture
                             1
                             2
TCS
Nvidia
                             1
Google
                             1
SQL> select max(count(*)) "no of employee" from works_34
group by comp_name;
no of employee
            1
SQL> select min(salary) from works 34 group by comp name;
MIN(SALARY)
    105000
     61850
     45000
     95200
     178500
SQL> select comp_name, min(salary) from works_34 group by
comp name;
COMP_NAME MIN(SALARY)
```

105000

Barclays

```
61850
Accenture
TCS
                            45000
Nvidia
                            95200
Google
                           178500
SQL> select comp name, salary from works 34 where salary
<= ALL (select min(salary) from works 34 group by</pre>
comp name);
COMP_NAME
                         SALARY
TCS
                          45000
SQL> select comp name from works 34 where salary >
(select avg(salary) from works 34 where comp name =
'TCS');
COMP_NAME
Barclays
Accenture
Google
Nvidia
SQL> update empl 34 set emp city='PCMC' where emp name =
'Avinash Kulkarni';
1 row updated.
SQL> update works_34 set salary=salary+salary*0.1 where
comp name='TCS';
1 row updated.
```

# SQL> select \* from works\_34;

EMP_NAME	COMP_NAME	SALARY
Avinash Kulkarni	Barclays	105000
Amit Kumar	TCS	49500
Govind Pillai	Accenture	61850
Prathamesh Lonsane	Google	178500
Adarsh Singh	Nvidia	95200

SQL> delete from works\_34 where comp\_name = 'Google';
1 row deleted.