

SQL*Plus: Release 21.0.0.0.0 - Production on Tue Sep 27 09:01:04 2022
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Enter user-name: sys

Enter password:

ERROR:

ORA-28009: connection as SYS should be as SYSDBA or SYSOPER

SQL> create user vnd identified by vnd;

User created.

SQL> grant all privileges to vnd;

Grant succeeded.

SQL> conn;

Enter user-name: vnd

Enter password:

Connected.

SQL> create table person(driver_id int primary key, name varchar(20), address
varchar(10));

Table created.

SQL> desc person

Name	Null?	Type
-----	-----	-----
DRIVER_ID	NOT NULL	NUMBER(38)
NAME		VARCHAR2(20)
ADDRESS		VARCHAR2(10)

SQL> insert into person values(&driver_id,&name,&address');

Enter value for driver_id: 101

Enter value for name: Nilesh

Enter value for address: Pune

old 1: insert into person values(&driver_id,&name,&address')

new 1: insert into person values(101,'Nilesh','Pune')

1 row created.

SQL> /

Enter value for driver_id: 102

Enter value for name: Ramesh

Enter value for address: Mumbai

```
old 1: insert into person values(&driver_id,&name,&address')
new 1: insert into person values(102,'ramesh','mumbai')
```

1 row created.

```
SQL> /
Enter value for driver_id: 103
Enter value for name: samarth
Enter value for address: pune
old 1: insert into person values(&driver_id,&name,&address')
new 1: insert into person values(103,'samarth','pune')
```

1 row created.

```
SQL> /
Enter value for driver_id: 104
Enter value for name: shivani
Enter value for address: mumbai
old 1: insert into person values(&driver_id,&name,&address')
new 1: insert into person values(104,'shivani','mumbai')
```

1 row created.

```
SQL> /
Enter value for driver_id: 105
Enter value for name: anvit
Enter value for address: madras
old 1: insert into person values(&driver_id,&name,&address')
new 1: insert into person values(105,'anvit','madras')
```

1 row created.

```
SQL> select * from person;
```

DRIVER_ID	NAME	ADDRESS
101	nilesh	pune
102	ramesh	mumbai
103	samarth	pune
104	shivani	mumbai
105	anvit	madras

```
SQL> create table car(license varchar(20), model varchar(20), year int);
```

Table created.

```
SQL> desc car;
```

Name	Null?	Type
LICENSE		VARCHAR2(20)
MODEL		VARCHAR2(20)

YEAR

NUMBER(38)

```
SQL> insert into car values('abc123','breeza',2018);
```

1 row created.

```
SQL> insert into car values('abc456','swift',2019);
```

1 row created.

```
SQL> insert into car values('xyz456','creata',2019);
```

1 row created.

```
SQL> insert into car values('xyz123','i20',2020);
```

1 row created.

```
SQL> insert into car values('abcxyz123','audi',2020);
```

1 row created.

```
SQL> select * from car;
```

LICENSE	MODEL	YEAR
abc123	breeza	2018
abc456	swift	2019
xyz456	creata	2019
xyz123	i20	2020
abcxyz123	audi	2020

```
SQL> create table accident(report_no int primary key, date_acc date, location  
varchar(20));
```

Table created.

```
SQL> desc accident;
```

Name	Null?	Type
REPORT_NO	NOT NULL	NUMBER(38)
DATE_ACC		DATE
LOCATION		VARCHAR2(20)

```
SQL> insert into accident values(11,'12/jan/2012','pune');
```

1 row created.

```
SQL> insert into accident values(10,'1/jul/2018','pune');
```

1 row created.

```
SQL> insert into accident values(23,'1/jul/2018','mumbai');
```

1 row created.

```
SQL> insert into accident values(7,'9/aug/2019','nagpur');
```

1 row created.

```
SQL> insert into accident values(6,'9/aug/2019','nashik');
```

1 row created.

```
SQL> select * from accident;
```

REPORT_NO	DATE_ACC	LOCATION
11	12-JAN-12	pune
10	01-JUL-18	pune
23	01-JUL-18	mumbai
7	09-AUG-19	nagpur
6	09-AUG-19	nashik

```
SQL>SQL> alter table car add constraint pk1 primary key(license);
```

Table altered.

```
SQL> create table owns(driver_id int references person(driver_id), license  
varchar(20) references car(license));
```

Table created.

```
SQL> desc owns;
```

Name	Null?	Type
DRIVER_ID		NUMBER(38)
LICENSE		VARCHAR2(20)

```
SQL> insert into owns values(101,'abc123');
```

1 row created.

```
SQL> insert into owns values(103,'abc456');
```

1 row created.

```
SQL> insert into owns values(102,'abcxyz123');
```

1 row created.

```
SQL> select * from owns;
```

DRIVER_ID	LICENSE
101	abc123
103	abc456
102	abcxyz123

```
SQL> create table participated(driver_id int references person(driver_id), model  
varchar(20),report_no int references accident(report_no),damage_amount int);
```

Table created.

```
SQL> desc participated;
```

Name	Null?	Type
DRIVER_ID		NUMBER(38)
MODEL		VARCHAR2(20)
REPORT_NO		NUMBER(38)
DAMAGE_AMOUNT		NUMBER(38)

```
SQL> insert into participated values(101,'breeza',23,10000);
```

1 row created.

```
SQL> insert into participated values(103,'swift',7,20000);
```

1 row created.

```
SQL> insert into participated values(104,'i20',11,5000);
```

1 row created.

```
SQL> select * from participated;
```

DRIVER_ID	MODEL	REPORT_NO	DAMAGE_AMOUNT
101	breeza	23	10000
103	swift	7	20000
104	i20	11	5000

```
SQL>SQL> create table employee(employee_name varchar(10) primary key,street  
varchar(15),city varchar(15));
```

Table created.

```
SQL> desc employee;
```

Name	Null?	Type
------	-------	------

EMPLOYEE_NAME	NOT NULL VARCHAR2(10)
STREET	VARCHAR2(15)
CITY	VARCHAR2(15)

SQL> insert into employee values('nandini','JM road','pune');

1 row created.

SQL> insert into employee values('anvit','FC road','pune');

1 row created.

SQL> insert into employee values('aayushi','Fashion street','mumbai');

1 row created.

SQL> insert into employee values('nilesh','xyz','nagar');

1 row created.

SQL> insert into employee values('anvesh','abc','nashik');

1 row created.

SQL> select * from employee;

EMPLOYEE_N	STREET	CITY
nandini	JM road	pune
anvit	FC road	pune
aayushi	Fashion street	mumbai
nilesh	xyz	nagar
anvesh	abc	nashik

SQL> create table company(company_name varchar(20) primary key,city varchar(10));

Table created.

SQL> desc company;

Name	Null?	Type
COMPANY_NAME	NOT NULL	VARCHAR2(20)
CITY		VARCHAR2(10)

SQL> insert into company values('cognizant','pune');

1 row created.

SQL> insert into company values('accenture','pune');

1 row created.

```
SQL> insert into company values('mahindra','mumbai');
```

1 row created.

```
SQL> insert into company values('mindtree','mumbai');
```

1 row created.

```
SQL> insert into company values('syntel','madras');
```

1 row created.

```
SQL> select * from company;
```

COMPANY_NAME	CITY
cognizant	pune
accenture	pune
mahindra	mumbai
mindtree	mumbai
syntel	madras

```
SQL> create table works(employee_name varchar(20) references
employee(employee_name),company_name varchar(20) references
company(company_name),salary int);
```

Table created.

```
SQL> desc works;
```

Name	Null?	Type
EMPLOYEE_NAME		VARCHAR2(20)
COMPANY_NAME		VARCHAR2(20)
SALARY		NUMBER(38)

```
SQL> insert into works values('aayushi','cognizant',45000);
```

1 row created.

```
SQL> insert into works values('nandini','mahindra',50000);
```

1 row created.

```
SQL> insert into works values('nilesh','mindtree',60000);
```

1 row created.

```
SQL> select * from works;
```

EMPLOYEE_NAME	COMPANY_NAME	SALARY
aayushi	cognizant	45000
nandini	mahindra	50000
nilesh	mindtree	60000

```
SQL> create table manages(employee_name varchar(20) references
employee(employee_name),manager_name varchar(20));
```

Table created.

```
SQL> desc manages;
```

Name	Null?	Type
EMPLOYEE_NAME		VARCHAR2(20)
MANAGER_NAME		VARCHAR2(20)

```
SQL> insert into manages values('aayushi','xyz');
```

1 row created.

```
SQL> insert into manages values('anvit','abc');
```

1 row created.

```
SQL> insert into manages values('nandini','pqr');
```

1 row created.

```
SQL> select * from manages;
```

EMPLOYEE_NAME	MANAGER_NAME
aayushi	xyz
anvit	abc
nandini	pqr

1) Create view with the employee_name, company_name by using above tables.

```
SQL> create view view1 as select employee_name,company_name from works;
```

View created.

```
SQL> select * from view1;
```

EMPLOYEE_NAME	COMPANY_NAME
aayushi	cognizant

nandini	mahindra
nilesh	mindtree

2) Create index for employee & participated table.

```
SQL> create index emp_city_idx on employee(city);
```

Index created.

```
SQL> create index part_driver_id on participated(driver_id);
```

Index created.

3) Create sequence for person & insert 4 records using sequence.

```
SQL> create sequence s1 increment by 10 start with 1 maxvalue 50 nocycle;
```

Sequence created.

```
SQL> insert into person (driver_id) values (s1.nextval);
```

1 row created.

```
SQL> select * from person;
```

DRIVER_ID	NAME	ADDRESS
101	nilesh	pune
102	ramesh	mumbai
103	samarth	pune
104	shivani	mumbai
105	anvit	madras
1		

6 rows selected.

```
SQL> insert into person (driver_id) values (s1.nextval);
```

1 row created.

```
SQL> insert into person (driver_id) values (s1.nextval);
```

1 row created.

```
SQL> insert into person (driver_id) values (s1.nextval);
```

1 row created.

```
SQL> select * from person;
```

DRIVER_ID	NAME	ADDRESS
101	nilesh	pune
102	ramesh	mumbai
103	samarth	pune
104	shivani	mumbai
105	anvit	madras
1		
11		
21		
31		

9 rows selected.

4) Create the synonym for table participated & company. Display the record using this table.

Update the record using the synonym tables.

SQL> create synonym s1_part for participated;

Synonym created.

SQL> select * from s1_part;

DRIVER_ID	MODEL	REPORT_NO	DAMAGE_AMOUNT
101	breeza	23	10000
103	swift	7	20000
104	i20	11	5000

SQL> update s1_part set damage_amount=25000 where report_no=11;

1 row updated.

SQL> select * from s1_part;

DRIVER_ID	MODEL	REPORT_NO	DAMAGE_AMOUNT
101	breeza	23	10000
103	swift	7	20000
104	i20	11	25000

SQL> create synonym s1_comp for company;

Synonym created.

SQL> select * from s1_comp;

COMPANY_NAME	CITY
cognizant	pune
accenture	pune
mahindra	mumbai
mindtree	mumbai
syntel	madras

```
SQL> update s1_comp set city='nashik' where company_name='accenture';
```

1 row updated.

```
SQL> select * from s1_comp;
```

COMPANY_NAME	CITY
cognizant	pune
accenture	nashik
mahindra	mumbai
mindtree	mumbai
syntel	madras