

SQL*Plus: Release 10.2.0.1.0 - Production on Wed Feb 28 08:35:27 2024

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SQL> connect system

Enter password:

Connected.

SQL> create table category(cat_id int primary key,cat_name varchar(20),cat_des varchar(30));

Table created.

SQL> create table product(pro_id int primary key,pro_name varchar(20),cat_id int,foreign
key(cat_id) references category(cat_id),price int);

Table created.

SQL> desc product;

Name	Null?	Type
PRO_ID	NOT NULL	NUMBER(38)
PRO_NAME		VARCHAR2(20)
CAT_ID		NUMBER(38)
PRICE		NUMBER(38)

SQL> insert into category values(&cat_id,&cat_name,&cat_des');

Enter value for cat_id: 1

Enter value for cat_name: Beverages

Enter value for cat_des: description for beverages

old 1: insert into category values(&cat_id,&cat_name,&cat_des')

```
new 1: insert into category values(1,'Beverages','description for beverages')
```

1 row created.

```
SQL> /
```

```
Enter value for cat_id: 2
```

```
Enter value for cat_name: Condiments
```

```
Enter value for cat_des: Description for condiments
```

```
old 1: insert into category values(&cat_id,&cat_name,&cat_des')
```

```
new 1: insert into category values(2,'Condiments','Description for condiments')
```

1 row created.

```
SQL> /
```

```
Enter value for cat_id: 3
```

```
Enter value for cat_name: Confections
```

```
Enter value for cat_des: Description for confections
```

```
old 1: insert into category values(&cat_id,&cat_name,&cat_des')
```

```
new 1: insert into category values(3,'Confections','Description for confections')
```

1 row created.

```
SQL> insert into product values(&pro_id,&pro_name,&cat_id,&price);
```

```
Enter value for pro_id: 1
```

```
Enter value for pro_name: Chais
```

```
Enter value for cat_id: 1
```

```
Enter value for price: 18
```

```
old 1: insert into product values(&pro_id,&pro_name,&cat_id,&price)
```

```
new 1: insert into product values(1,'Chais',1,18)
```

1 row created.

SQL> /

Enter value for pro_id: 2

Enter value for pro_name: chang

Enter value for cat_id: 1

Enter value for price: 19

old 1: insert into product values(&pro_id,&pro_name,&cat_id,&price)

new 1: insert into product values(2,'chang',1,19)

1 row created.

SQL> /

Enter value for pro_id: 3

Enter value for pro_name: Aniseed Syrup

Enter value for cat_id: 2

Enter value for price: 10

old 1: insert into product values(&pro_id,&pro_name,&cat_id,&price)

new 1: insert into product values(3,'Aniseed Syrup',2,10)

1 row created.

SQL> select * from category;

CAT_ID	CAT_NAME	CAT_DES
1	Beverages	description for beverages
2	Condiments	Description for condiments
3	Confections	Description for confections

SQL> select * from product;

PRO_ID	PRO_NAME	CAT_ID	PRICE
1	Chais	1	18
2	chang	1	19
3	Aniseed Syrup	2	10

SQL> select pro_id,pro_name,cat_name from product natural join category;

PRO_ID	PRO_NAME	CAT_NAME
2	chang	Beverages
1	Chais	Beverages
3	Aniseed Syrup	Condiments

SQL> select pro_id,pro_name,cat_name from category inner join product on category.cat_id=product.cat_id;

PRO_ID	PRO_NAME	CAT_NAME
1	Chais	Beverages
2	chang	Beverages
3	Aniseed Syrup	Condiments

SQL> select pro_id,pro_name,cat_name from category natural left outer join product;

PRO_ID	PRO_NAME	CAT_NAME
1	Chais	Beverages
2	chang	Beverages

3 Aniseed Syrup Condiments
Confections

SQL> select pro_id,pro_name,cat_name from category natural left outer join product where price>10;

PRO_ID	PRO_NAME	CAT_NAME
2	chang	Beverages
1	Chais	Beverages

SQL> select pro_id,pro_name,cat_name from category natural right outer join product;

PRO_ID	PRO_NAME	CAT_NAME
2	chang	Beverages
1	Chais	Beverages
3	Aniseed Syrup	Condiments

SQL> select pro_id,pro_name,cat_name from product natural full outer join category;

PRO_ID	PRO_NAME	CAT_NAME
2	chang	Beverages
1	Chais	Beverages
3	Aniseed Syrup	Condiments
		Confections

SQL>