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Practical 7:

Study of various types of SET OPERATORS

Suppose that a Product table contains two attributes, PROD_CODE and VEND_CODE. The values for the PROD_CODE are: ABC, DEF, GHI and JKL. These are matched by the following values for the VEND_CODE: 125, 124, 124 and 123, respectively (e.g., PROD_CODE value ABC corresponds to VEND_CODE value 125). The Vendor table contains a single attribute, VEND_CODE, with values 123, 124, 125 and 126. (The VEND_CODE attribute in the Product table is a foreign key to the VEND_CODE in the Vendor table.)

```
SQL> create table Vendor(VEND_CODE int primary key);
Table created.
SQL> create table Product(PROD_CODE varchar(10),VEND_CODE references Vendor(VEND_CODE));
Table created.
```

```
SQL> insert into VENDOR values(125);
1 row created.
SQL> insert into VENDOR values(126);
1 row created.
SQL> insert into VENDOR values(124);
1 row created.
SQL> insert into VENDOR values(123);
1 row created.
```

```
SQL> select * from Vendor;
```

VEND_CODE
125
126
124
123

```
SQL> insert into Product values('ABC',125);
```

```
1 row created.
```

```
SQL> insert into Product values('DEF',124);
```

```
1 row created.
```

```
SQL> insert into Product values('GHI',124);
```

```
1 row created.
```

```
SQL> insert into Product values('JKL',123);
```

```
1 row created.
```

```
SQL> select * from Product;
```

PROD_CODE	VEND_CODE
ABC	125
DEF	124
GHI	124
JKL	123

Given the information, what would be the query output for the following? Show values.

a) A UNION query based on these two tables.

```
SQL> select VEND_CODE from Vendor
2 union
3 select VEND_CODE from Product;
```

VEND_CODE
123
124
125
126

b) A UNION ALL query based on these two tables

```
SQL> select VEND_CODE from Vendor
2 union all
3 select VEND_CODE from Product;

VEND_CODE
-----
125
126
124
123
125
124
124
124
123

8 rows selected.
```

c) An INTERSECT query based on these two tables.

```
SQL> select VEND_CODE from Vendor
2 intersect
3 select VEND_CODE from Product;

VEND_CODE
-----
123
124
125
```

d) A MINUS query based on these two tables

```
SQL> select VEND_CODE from Vendor
2 minus
3 select VEND_CODE from Product;

VEND_CODE
-----
126
```