

## SCHEMAS

Filter objects

- airline
- banking
- book\_dealer
- college
  - Tables
    - class
    - iamarks
    - semsec
    - student
    - subject
  - Views
  - Stored Procedures
  - Functions
- details
- faculty\_login
- insurance
- movie
- order\_processing
- student\_enrol
- supplier
- sys

Administration Schemas

Information

Schema: college

Limit to 1000 rows

```
1 • CREATE DATABASE SUPPLIER;
2 • USE SUPPLIER;
3 • CREATE TABLE SUPPLIERS(SID INT(5) PRIMARY KEY, SNAME VARCHAR(20), CITY VARCHAR(20));
4 • CREATE TABLE PARTS(PID INT(5) PRIMARY KEY, PNAME VARCHAR(20),COLOR VARCHAR(10));
5 • CREATE TABLE CATALOG(SID INT(5), PID INT(5), FOREIGN KEY(SID)REFERENCES SUPPLIERS(SID), FOREIGN KEY(PID) REFERENCES PARTS(PID),COST FLOAT(6), PRIMARY KEY(SID, PID));
6 • INSERT INTO SUPPLIERS VALUES(10001,'ACME WIDGET','BANGALORE');
7 • INSERT INTO SUPPLIERS VALUES(10002,'JOHNS ','KOLKATA');
8 • INSERT INTO SUPPLIERS VALUES(10003,'VIMAL','MUMBAI');
9 • INSERT INTO SUPPLIERS VALUES(10004,'RELIANCE ','DELHI');
10 • SELECT * FROM SUPPLIERS;
11 • INSERT INTO PARTS VALUES(20001,'BOOK','RED');
12 • INSERT INTO PARTS VALUES(20002,'PEN','RED');
13 • INSERT INTO PARTS VALUES(20003,'PENCIL','GREEN');
14 • INSERT INTO PARTS VALUES(20004,'MOBILE ','GREEN');
15 • INSERT INTO PARTS VALUES(20005,'CHARGER','BLACK');
16 • SELECT * FROM PARTS;
17 • INSERT INTO CATALOG VALUES(10001,20001,10);
18 • INSERT INTO CATALOG VALUES(10001,20002,10);
19 • INSERT INTO CATALOG VALUES(10001,20003,30);
20 • INSERT INTO CATALOG VALUES(10001,20004,10);
21 • INSERT INTO CATALOG VALUES(10001,20005,10);
22 • INSERT INTO CATALOG VALUES(10002,20001,10);
23 • INSERT INTO CATALOG VALUES(10002,20002,20);
24 • INSERT INTO CATALOG VALUES(10003,20003,30);
25 • INSERT INTO CATALOG VALUES(10004,20003,40);
26 • SELECT * FROM CATALOG;
27
28 • SELECT DISTINCT P.PNAME FROM PARTS P, CATALOG C WHERE P.PID = C.PID;
29
```



Database Explorer

MAS

Enter objects

airline  
banking  
book\_dealer  
**college**  
Tables  
class  
iamarks  
semsec  
student  
subject  
Views  
Stored Procedures  
Functions  
details  
faculty\_login  
insurance  
movie  
order\_processing  
student\_enrol  
supplier  
sys

Administration Schemas

Information

Schema: college

supplier ×

Limit to 1000 rows

```
15 • INSERT INTO PARTS VALUES(20005, 'CHARGER', 'BLACK');
16 • SELECT * FROM PARTS;
17 • INSERT INTO CATALOG VALUES(10001,20001,10);
18 • INSERT INTO CATALOG VALUES(10001,20002,10);
19 • INSERT INTO CATALOG VALUES(10001,20003,30);
20 • INSERT INTO CATALOG VALUES(10001,20004,10);
21 • INSERT INTO CATALOG VALUES(10001,20005,10);
22 • INSERT INTO CATALOG VALUES(10002,20001,10);
23 • INSERT INTO CATALOG VALUES(10002,20002,20);
24 • INSERT INTO CATALOG VALUES(10003,20003,30);
25 • INSERT INTO CATALOG VALUES(10004,20003,40);
26 • SELECT * FROM CATALOG;
27
28 • SELECT DISTINCT P.PNAME FROM PARTS P, CATALOG C WHERE P.PID = C.PID;
29
30 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE NOT EXISTS (SELECT C.SID FROM CATALOG C WHERE C.SID =S.SID AND C.PID = P.PID));
31
32 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE P.COLOR = 'RED' AND (NOT EXISTS (SELECT C.SID FROM CATALOG C
33 WHERE C.SID = S.SID AND C.PID = P.PID)));
34
35 • SELECT P.PNAME FROM PARTS P, CATALOG C, SUPPLIERS S WHERE P.PID= C.PID AND C.SID = S.SID AND S.SNAME = 'ACME WIDGET' AND NOT EXISTS
36 (SELECT * FROM CATALOG C1, SUPPLIERS S1 WHERE P.PID = C1.PID AND C1.SID = S1.SID AND S1.SNAME <> 'ACME WIDGET');
37
38 • SELECT DISTINCT C.SID FROM CATALOG C WHERE C.COST > ( SELECT AVG (C1.COST) FROM CATALOG C1 WHERE C1.PID = C.PID );
39
40 • SELECT P.PID, S.SNAME FROM PARTS P, SUPPLIERS S, CATALOG C WHERE C.PID = P.PID AND C.SID = S.SID AND C.COST = (SELECT MAX(C1.COST) FROM CATALOG C1
41 WHERE C1.PID = P.PID);
42
43 • SELECT DISTINCT C.SID FROM CATALOG C WHERE NOT EXISTS ( SELECT * FROM PARTS P WHERE P.PID = C.PID AND P.COLOR <> 'RED' );
```

Output

## SCHEMAS

Filter objects

- airline
- banking
- book\_dealer
- college
- details
  - Tables
  - Views
  - Stored Procedures
  - Functions
- faculty\_login
- insurance
- movie
- order\_processing
- student\_enrol
- supplier
  - Tables
    - catalog
    - parts
    - suppliers
  - Views
  - Stored Procedures
  - Functions
- sys

```
7 • INSERT INTO SUPPLIERS VALUES(10002,'JOHNS ','KOLKATA');
8 • INSERT INTO SUPPLIERS VALUES(10003,'VIMAL','MUMBAI');
9 • INSERT INTO SUPPLIERS VALUES(10004,'RELIANCE ','DELHI');
10 • SELECT * FROM SUPPLIERS;
11 • INSERT INTO PARTS VALUES(20001,'BOOK','RED');
12 • INSERT INTO PARTS VALUES(20002,'PEN','RED');
13 • INSERT INTO PARTS VALUES(20003,'PENCIL','GREEN');
14 • INSERT INTO PARTS VALUES(20004,'MOBILE ','GREEN');
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	SID	SNAME	CITY
▶	10001	ACME WIDGET	BANGALORE
	10002	JOHNS	KOLKATA
	10003	VIMAL	MUMBAI
	10004	RELIANCE	DELHI
•	NULL	NULL	NULL

Local Server (supplier) x

Query Database Server Tools Scripting Help



supplier x



```
10 • SELECT * FROM SUPPLIERS;
11 • INSERT INTO PARTS VALUES(20001,'BOOK','RED');
12 • INSERT INTO PARTS VALUES(20002,'PEN','RED');
13 • INSERT INTO PARTS VALUES(20003,'PENCIL','GREEN');
14 • INSERT INTO PARTS VALUES(20004,'MOBILE ','GREEN');
15 • INSERT INTO PARTS VALUES(20005,'CHARGER','BLACK');
16 • SELECT * FROM PARTS;
17 • INSERT INTO CATALOG VALUES(10001,20001,10);
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	PID	PNAME	COLOR
▶	20001	BOOK	RED
	20002	PEN	RED
	20003	PENCIL	GREEN
	20004	MOBILE	GREEN
	20005	CHARGER	BLACK
*	NULL	NULL	NULL

Server

Local Server (supplier)

View

Query

Database

Server

Tools

Scripting

Help

supplier

Limit to 1000 rows

20

•

INSERT INTO CATALOG VALUES(10001,20004,10);

21

•

INSERT INTO CATALOG VALUES(10001,20005,10);

22

•

INSERT INTO CATALOG VALUES(10002,20001,10);

23

•

INSERT INTO CATALOG VALUES(10002,20002,20);

24

•

INSERT INTO CATALOG VALUES(10003,20003,30);

25

•

INSERT INTO CATALOG VALUES(10004,20003,40);

26

•

SELECT \* FROM CATALOG;

27

Result Grid

Filter Rows:

Edit

Export/Import

Wrap Cell Content

	SID	PID	COST
▶	10001	20001	10
	10001	20002	10
	10001	20003	30
	10001	20004	10
	10001	20005	10
	10002	20001	10
	10002	20002	20
	10003	20003	30
	10004	20003	40
*	NULL	NULL	NULL

CATALOG 3



ch

er × Local Server (supplier) ×

Query Database Server Tools Scripting Help

supplier ×

Limit to 1000 rows

24 • INSERT INTO CATALOG VALUES(10003,20003,30);

25 • INSERT INTO CATALOG VALUES(10004,20003,40);

26 • SELECT \* FROM CATALOG;

27

28 • SELECT DISTINCT P.PNAME FROM PARTS P, CATALOG C WHERE P.PID = C.PID;

29

30 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE NOT EXISTS (SELECT C.SID FROM CATALOG C WHERE C.SID =S.SID AND C.PID = P.PID));

31

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

PNAME
BOOK
PEN
PENCIL
MOBILE
CHARGER

supplier x



Limit to 1000 rows



```
24 • INSERT INTO CATALOG VALUES(10003,20003,30);
25 • INSERT INTO CATALOG VALUES(10004,20003,40);
26 • SELECT * FROM CATALOG;
27
28 • SELECT DISTINCT P.PNAME FROM PARTS P, CATALOG C WHERE P.PID = C.PID;
29
30 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE NOT EXISTS (SELECT C.SID FROM CATALOG C WHERE C.SID =S.SID AND C.PID = P.PID));
31
```

Result Grid

 Filter Rows:

Export: 

Wrap Cell Content: 

SNAME
ACME WIDGET

er x

Local Server (supplier) x

Query Database Server Tools Scripting Help

supplier x

Limit to 1000 rows

29

30 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE NOT EXISTS (SELECT C.SID FROM CATALOG C WHERE C.SID =S.SID AND C.PID = P.PID));

31

32 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE P.COLOR = 'RED' AND (NOT EXISTS (SELECT C.SID FROM CATALOG C

33 WHERE C.SID = S.SID AND C.PID = P.PID)));

34

35 • SELECT P.PNAME FROM PARTS P, CATALOG C, SUPPLIERS S WHERE P.PID= C.PID AND C.SID = S.SID AND S.SNAME = 'ACME WIDGET' AND NOT EXISTS

36 (SELECT \* FROM CATALOG C1, SUPPLIERS S1 WHERE P.PID = C1.PID AND C1.SID = S1.SID AND S1.SNAME <> 'ACME WIDGET');

Result Grid

Filter Rows:

Exports

Wrap Cell Content:

	SNAME
▶	ACME WIDGET
	JOHNS



supplier



Limit to 1000 rows

```
30 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE NOT EXISTS (SELECT C.SID FROM CATALOG C WHERE C.SID =S.SID AND C.PID = P.PID));
31
32 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE P.COLOR = 'RED' AND (NOT EXISTS (SELECT C.SID FROM CATALOG C
33 WHERE C.SID = S.SID AND C.PID = P.PID)));
34
35 • SELECT P.PNAME FROM PARTS P, CATALOG C, SUPPLIERS S WHERE P.PID= C.PID AND C.SID = S.SID AND S.SNAME = 'ACME WIDGET' AND NOT EXISTS
36 (SELECT * FROM CATALOG C1, SUPPLIERS S1 WHERE P.PID = C1.PID AND C1.SID = S1.SID AND S1.SNAME <> 'ACME WIDGET');
37
```

Result Grid

 Filter Rows:

Export: 

Wrap Cell Content: 

	PNAME
▶	MOBILE
	CHARGER

supplier x



```
31
32 • SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS (SELECT P.PID FROM PARTS P WHERE P.COLOR = 'RED' AND (NOT EXISTS (SELECT C.SID FROM CATALOG C
33   WHERE C.SID = S.SID AND C.PID = P.PID)));
34
35 • SELECT P.PNAME FROM PARTS P, CATALOG C, SUPPLIERS S WHERE P.PID= C.PID AND C.SID = S.SID AND S.SNAME = 'ACME WIDGET' AND NOT EXISTS
36   (SELECT * FROM CATALOG C1, SUPPLIERS S1 WHERE P.PID = C1.PID AND C1.SID = S1.SID AND S1.SNAME <> 'ACME WIDGET');
37
38 • SELECT DISTINCT C.SID FROM CATALOG C WHERE C.COST > ( SELECT AVG (C1.COST) FROM CATALOG C1 WHERE C1.PID = C.PID );
```

<

Result Grid Filter Rows:  Export: Wrap Cell Content:

	SID
▶	10002
	10004