



Navigator

SCHEMAS

Filter objects

- airline
- banking
- book_dealer
- college
- details
- faculty_login
- insurance
- movie
- order_processing
- student_enrol
- student_faculty**
 - Tables
 - class
 - enrolled
 - faculty
 - student
 - Views
 - Stored Procedures
 - Functions
- supplier
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas

Information

Schema:
student_faculty

student_faculty x

Limit to 1000 rows

```
1 • CREATE DATABASE STUDENT_FACULTY;
2 • USE STUDENT_FACULTY;
3 • CREATE TABLE STUDENT(SNUM INT,SNAME VARCHAR(10),MAJOR VARCHAR(2),LVL VARCHAR(2),AGE INT, PRIMARY KEY(SNUM));
4 • CREATE TABLE FACULTY(FID INT,FNAME VARCHAR(20),DEPTID INT,PRIMARY KEY(FID));
5 • CREATE TABLE CLASS(CNAME VARCHAR(20),METTS_AT TIMESTAMP,ROOM VARCHAR(10), FID INT,PRIMARY KEY(CNAME),FOREIGN KEY(FID) REFERENCES FACULTY(FID));
6 • CREATE TABLE ENROLLED(SNUM INT,CNAME VARCHAR(20),PRIMARY KEY(SNUM,CNAME),FOREIGN KEY(SNUM) REFERENCES STUDENT(SNUM),FOREIGN KEY(CNAME) REFERENCES CLASS(CNAME));
7 • INSERT INTO STUDENT VALUES(1, 'JHON', 'CS', 'SR', 19);
8 • INSERT INTO STUDENT VALUES(2, 'SMITH', 'CS', 'JR', 20);
9 • INSERT INTO STUDENT VALUES(3, 'JACOB', 'CV', 'SR', 20);
10 • INSERT INTO STUDENT VALUES(4, 'TOM ', 'CS', 'JR', 20);
11 • INSERT INTO STUDENT VALUES(5, 'RAHUL', 'CS', 'JR', 20);
12 • INSERT INTO STUDENT VALUES(6, 'RITA', 'CS', 'SR', 21);
13 • SELECT * FROM STUDENT;
14 • INSERT INTO FACULTY VALUES(11, 'HARISH', 1000);
15 • INSERT INTO FACULTY VALUES(12, 'MV', 1000);
16 • INSERT INTO FACULTY VALUES(13, 'MIRA', 1001);
17 • INSERT INTO FACULTY VALUES(14, 'SHIVA', 1002);
18 • INSERT INTO FACULTY VALUES(15, 'NUPUR', 1000);
19 • SELECT * FROM FACULTY;
20 • INSERT INTO CLASS VALUES('CLASS1', '12/11/15 10:15:16', 'R1', 14);
21 • INSERT INTO CLASS VALUES('CLASS10', '12/11/15 10:15:16', 'R128', 14);
22 • INSERT INTO CLASS VALUES('CLASS2', '12/11/15 10:15:20', 'R2', 12);
23 • INSERT INTO CLASS VALUES('CLASS3', '12/11/15 10:15:25', 'R3', 11);
24 • INSERT INTO CLASS VALUES('CLASS4', '12/11/15 20:15:20', 'R4', 14);
25 • INSERT INTO CLASS VALUES('CLASS5', '12/11/15 20:15:20', 'R3', 15);
26 • INSERT INTO CLASS VALUES('CLASS6', '12/11/15 13:20:20', 'R2', 14);
27 • INSERT INTO CLASS VALUES('CLASS7', '12/11/15 10:10:10', 'R3', 14);
28 • SELECT * FROM CLASS;
29 • INSERT INTO ENROLLED VALUES(1, 'CLASS1');
```

Output

MySQL Workbench

Local Server x

File Edit View Query Database Server Tools Scripting Help

Navigator

student_faculty x

Limit to 1000 rows

SCHEMAS

Filter objects

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Administration Schemas

Information

Schema: student_faculty

```
29 • INSERT INTO ENROLLED VALUES(1, 'CLASS1');
30 • INSERT INTO ENROLLED VALUES(2, 'CLASS1');
31 • INSERT INTO ENROLLED VALUES(3, 'CLASS3');
32 • INSERT INTO ENROLLED VALUES(4, 'CLASS3');
33 • INSERT INTO ENROLLED VALUES(5, 'CLASS4');
34 • INSERT INTO ENROLLED VALUES(1, 'CLASS5');
35 • INSERT INTO ENROLLED VALUES(2, 'CLASS5');
36 • INSERT INTO ENROLLED VALUES(3, 'CLASS5');
37 • INSERT INTO ENROLLED VALUES(4, 'CLASS5');
38 • INSERT INTO ENROLLED VALUES(5, 'CLASS5');
39 • SELECT * FROM ENROLLED;
40
41 • SELECT DISTINCT S.SNAME FROM STUDENT S, CLASS C, ENROLLED E, FACULTY F WHERE S.SNUM = E.SNUM AND E.CNAME = C.CNAME AND C.FID = F.FID AND F.FNAME = 'HARISH' AND S.LVL = 'JR';
42
43 • SELECT DISTINCT CNAME FROM CLASS WHERE ROOM='ROOM128'
44 OR
45 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*)>=5);
46
47 • SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM IN (SELECT E1.SNUM FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2 WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME
48 AND E1.CNAME = C1.CNAME AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);
49
50 • SELECT F.FNAME,F.FID FROM FACULTY F WHERE F.FID IN ( SELECT FID FROM CLASS GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS) );
51
52 • SELECT DISTINCT F.FNAME FROM FACULTY F WHERE 5 > (SELECT COUNT(E.SNUM) FROM CLASS C, ENROLLED E WHERE C.CNAME = E.CNAME AND C.FID = F.FID);
53
54 • SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM NOT IN (SELECT E.SNUM FROM ENROLLED E );
55
56 • SELECT S.AGE, S.LVL FROM STUDENT S GROUP BY S.AGE, S.LVL HAVING S.LVL IN (SELECT S1.LVL FROM STUDENT S1 WHERE S1.AGE=S.AGE GROUP BY S1.AGE, S1.LVL
57 HAVING COUNT(S1.SNUM) >= ALL (SELECT COUNT(S2.SNUM) FROM STUDENT S2 WHERE S1.AGE=S2.AGE GROUP BY S2.LVL, S2.AGE));
```



```
11 • INSERT INTO STUDENT VALUES(5, 'RAHUL', 'CS', 'JR', 20);
12 • INSERT INTO STUDENT VALUES(6, 'RITA', 'CS', 'SR', 21);
13 • SELECT * FROM STUDENT;
14 • INSERT INTO FACULTY VALUES(11, 'HARISH', 1000);
15 • INSERT INTO FACULTY VALUES(12, 'MV', 1000);
```

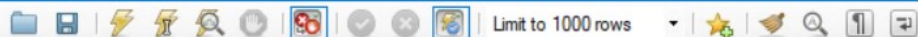
	snum	sname	major	lvl	age
▶	1	jhon	CS	Sr	19
	2	Smith	CS	Jr	20
	3	Jacob	CV	Sr	20
	4	Tom	CS	Jr	20
	5	Rahul	CS	Jr	20
	6	Rita	CS	Sr	21
*	NULL	NULL	NULL	NULL	NULL

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Query Database Server Tools Scripting Help



student_faculty x



Limit to 1000 rows

```
16 • INSERT INTO FACULTY VALUES(13 , 'MIRA', 1001);
17 • INSERT INTO FACULTY VALUES(14, 'SHIVA', 1002);
18 • INSERT INTO FACULTY VALUES(15, 'NUPUR', 1000);
19 • SELECT * FROM FACULTY;
20 • INSERT INTO CLASS VALUES('CLASS1', '12/11/15 10:15:16', 'R1', 14);
```

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

	fid	fname	deptid
▶	11	Harish	1000
	12	MV	1000
	13	Mira	1001
	14	Shiva	1002
	15	Nupur	1000
*	NULL	NULL	NULL

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Query Database Server Tools Scripting Help



student_faculty x



```
25 • INSERT INTO CLASS VALUES('CLASS5', '12/11/15 20:15:20', 'R3', 15);
26 • INSERT INTO CLASS VALUES('CLASS6', '12/11/15 13:20:20', 'R2', 14);
27 • INSERT INTO CLASS VALUES('CLASS7', '12/11/15 10:10:10', 'R3', 14);
28 • SELECT * FROM CLASS;
29 • INSERT INTO ENROLLED VALUES(1, 'CLASS1');
```

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

	cname	metts_at	room	fid
▶	CLASS1	2012-11-15 10:15:16	R1	14
	CLASS10	2012-11-15 10:15:16	R128	14
	CLASS2	2012-11-15 10:15:20	R2	12
	CLASS3	2012-11-15 10:15:25	R3	11
	CLASS4	2012-11-15 20:15:20	R4	14
	CLASS5	2012-11-15 20:15:20	R3	15
	CLASS6	2012-11-15 13:20:20	R2	14
	CLASS7	2012-11-15 10:10:10	R3	14
*	NULL	NULL	NULL	NULL

student_faculty x



```
35 • INSERT INTO ENROLLED VALUES(2, 'CLASS5');
36 • INSERT INTO ENROLLED VALUES(3, 'CLASS5');
37 • INSERT INTO ENROLLED VALUES(4, 'CLASS5');
38 • INSERT INTO ENROLLED VALUES(5, 'CLASS5');
39 • SELECT * FROM ENROLLED;
```

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

	snum	cname
▶	1	CLASS1
	2	CLASS1
	3	CLASS3
	4	CLASS3
	5	CLASS4
	1	CLASS5
	2	CLASS5
	3	CLASS5
	4	CLASS5
	5	CLASS5
•	NULL	NULL



student_faculty x



Limit to 1000 rows

```
38 • INSERT INTO ENROLLED VALUES(5, 'CLASS5');
```

```
39 • SELECT * FROM ENROLLED;
```

```
40
```

```
41 • SELECT DISTINCT S.SNAME FROM STUDENT S, CLASS C, ENROLLED E, FACULTY F WHERE S.SNUM = E.SNUM AND E.CNAME = C.CNAME AND C.FID = F.FID AND F.FNAME = 'HARISH' AND S.LVL = 'JR';
```

```
42
```

<

Result Grid Filter Rows: Export: Wrap Cell Content:

SNAME

Tom

```
42
43 • SELECT DISTINCT CNAME FROM CLASS WHERE ROOM='ROOM128'
44 OR
45 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*)>=5);
46
```

Result Grid Filter Rows: Export: Wrap Cell Content:

CNAME
CLASS5

unch

Query Database Server Tools Scripting Help



student_faculty



```
45 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*)>=5);
46
47 • SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM IN (SELECT E1.SNUM FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2 WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME
48 AND E1.CNAME = C1.CNAME AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);
49
```

Result Grid Filter Rows: Export: Wrap Cell Content:

SNAME
Rahul

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Procedures
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Navigator

SCHEMAS

Filter objects

- airline
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- college
- details
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- order_processing
- student_enrol
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- supplier
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student_faculty x



Limit to 1000 rows

```
47 • SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM IN (SELECT E1.SNUM FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2 WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME
48 AND E1.CNAME = C1.CNAME AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);
49
50 • SELECT F.FNAME,F.FID FROM FACULTY F WHERE F.FID IN ( SELECT FID FROM CLASS GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS) );
51
```

Result Grid Filter Rows: Export: Wrap Cell Content: I A

	FNAME	FID
▶	Shiva	14



student_faculty x



49

50 • SELECT F.FNAME,F.FID FROM FACULTY F WHERE F.FID IN (SELECT FID FROM CLASS GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS));

51

52 • SELECT DISTINCT F.FNAME FROM FACULTY F WHERE 5 > (SELECT COUNT(E.SNUM) FROM CLASS C, ENROLLED E WHERE C.CNAME = E.CNAME AND C.FID = F.FID);

53



Result Grid



Filter Rows:

Export:



Wrap Cell Content:



FNAME



Harish

MV

Mira

Shiva



student_faculty x



```

51
52 • SELECT DISTINCT F.FNAME FROM FACULTY F WHERE S > (SELECT COUNT(E.SNUM) FROM CLASS C, ENROLLED E WHERE C.CNAME = E.CNAME AND C.FID = F.FID);
53
54 • SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM NOT IN (SELECT E.SNUM FROM ENROLLED E );
55

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	SNAME
▶	Rita



student_faculty x



```
53
54 • SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM NOT IN (SELECT E.SNUM FROM ENROLLED E );
55
56 • SELECT S.AGE, S.LVL FROM STUDENT S GROUP BY S.AGE, S.LVL HAVING S.LVL IN (SELECT S1.LVL FROM STUDENT S1 WHERE S1.AGE=S.AGE GROUP BY S1.AGE, S1.LVL
57 HAVING COUNT(S1.SNUM) >= ALL (SELECT COUNT(S2.SNUM) FROM STUDENT S2 WHERE S1.AGE=S2.AGE GROUP BY S2.LVL, S2.AGE));
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	AGE	LVL
▶	19	Sr
	20	Jr
	21	Sr