Exercices CM - JOINS

Donner les nom et adresse de personnes avec les noms de bars qu'ils fréquentent

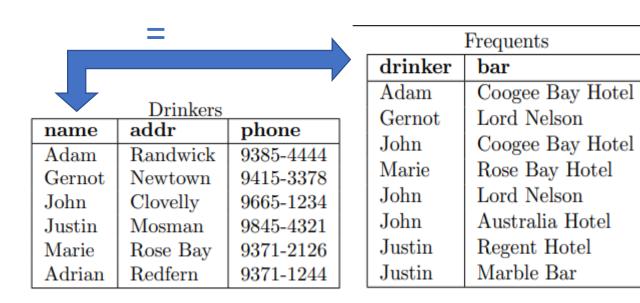
name	Bars addr	license	openDate
Australia Hotel	The Rocks	123456	12/1/1940
Coogee Bay Hotel	Coogee	966500	31/8/1980
Rose Bay Hotel	Rose Bay	966410	31/8/1920
Lord Nelson	The Rocks	123888	11/11/1920
Marble Bar	Sydney	122123	1/4/2001
Regent Hotel	Kingsford	987654	29/2/2000
Royal Hotel	Randwick	938500	26/6/1986

Drinkers					
name	addr	phone			
Adam	Randwick	9385-4444			
Gernot	Newtown	9415-3378			
John	Clovelly	9665-1234			
Justin	Mosman	9845-4321			
Marie	Rose Bay	9371-2126			
Adrian	Redfern	9371-1244			

	Frequents				
drinker	bar				
Adam	Coogee Bay Hotel				
Gernot	Lord Nelson				
John	Coogee Bay Hotel				
Marie	Rose Bay Hotel				
John	Lord Nelson				
John	Australia Hotel				
Justin	Regent Hotel				
Justin	Marble Bar				

Donner les nom et adresse de personnes avec les noms de bars qu'ils fréquentent

SELECT name, addr, bar FROM Drinkers JOIN Frequents ON (name = drinker);



	SELECT *				
1	FROM Drinker	rs JOIN Freq	uents ON (na	ame = drinker)

	name	addr	phone	drinker	bar
1	Adam	Randwick	9385-4444	Adam	Coogee Bay Hotel
2	Gernot	Newtown	9415-3378	Gernot	Lord Nelson
3	John	Clovelly	9665-1234	John	Australia Hotel
4	John	Clovelly	9665-1234	John	Coogee Bay Hotel
5	John	Clovelly	9665-1234	John	Lord Nelson
6	Justin	Mosman	9845-4321	Justin	Marble Bar
7	Justin	Mosman	9845-4321	Justin	Regent Hotel
8	Marie	Rose Bay	9371-2126	Marie	Rose Bay Hotel

Donner les nom et adresse de personnes avec les noms de bars qu'ils fréquentent. Donner aussi l'adresse du bar.

Bars					
name	addr	license	openDate		
Australia Hotel	The Rocks	123456	12/1/1940		
Coogee Bay Hotel	Coogee	966500	31/8/1980		
Rose Bay Hotel	Rose Bay	966410	31/8/1920		
Lord Nelson	The Rocks	123888	11/11/1920		
Marble Bar	Sydney	122123	1/4/2001		
Regent Hotel	Kingsford	987654	29/2/2000		
Royal Hotel	Randwick	938500	26/6/1986		

name	addr	phone
Adam	Randwick	9385-4444
Gernot	Newtown	9415-3378
John	Clovelly	9665-1234
Justin	Mosman	9845-4321
Marie	Rose Bay	9371-2126
Adrian	Redfern	9371-1244

drinker	Frequents bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
John	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
John	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar

Donner les nom et adresse de personnes avec les noms de bars qu'ils fréquentent. Donner aussi l'adresse du bar.

SELECT D.name, D.addr, B.name, B.addr
FROM Drinkers D JOIN Frequents F ON (D.name = F.drinker)
JOIN Bars B ON (F.bar = B.name);

	=	
	Drinkers	
name	addr	phone
Adam	Randwick	9385-4444
Gernot	Newtown	9415-3378
John	Clovelly	9665-1234
Justin	Mosman	9845-4321
Marie	Rose Bay	9371-2126
Adrian	Redfern	9371-1244

drinker	bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
$_{ m John}$	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
$_{ m John}$	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar

	Bars		
name	addr	license	openDate
Australia Hotel	The Rocks	123456	12/1/1940
Coogee Bay Hotel	Coogee	966500	31/8/1980
Rose Bay Hotel	Rose Bay	966410	31/8/1920
Lord Nelson	The Rocks	123888	11/11/1920
Marble Bar	Sydney	122123	1/4/2001
Regent Hotel	Kingsford	987654	29/2/2000
Royal Hotel	Randwick	938500	26/6/1986

Donner les couples de personnes qui fréquentent un même bar

Bars					
name	addr	license	openDate		
Australia Hotel	The Rocks	123456	12/1/1940		
Coogee Bay Hotel	Coogee	966500	31/8/1980		
Rose Bay Hotel	Rose Bay	966410	31/8/1920		
Lord Nelson	The Rocks	123888	11/11/1920		
Marble Bar	Sydney	122123	1/4/2001		
Regent Hotel	Kingsford	987654	29/2/2000		
Royal Hotel	Randwick	938500	26/6/1986		

name	addr	phone
Adam	Randwick	9385-4444
Gernot	Newtown	9415-3378
John	Clovelly	9665-1234
Justin	Mosman	9845-4321
Marie	Rose Bay	9371-2126
Adrian	Redfern	9371-1244

drinker	bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
John	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
John	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar

Donner les couples de personnes qui fréquentent un même bar

Requête pas tout à fait correcte

SELECT F1.drinker, F2.drinker

FROM Frequents F1 JOIN Frequents F2 ON (F1.bar = F2.bar AND F1.drinker<>F2.drinker);

	drinker	drinker
1	Adam	John
2	Gernot	John
3	John	Adam
4	John	Gernot

	Frequents F1
drinker	bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
John	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
John	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar
<>>	Frequents F2
drinker	Frequents F2
	Trequents
drinker	bar
drinker Adam	bar Coogee Bay Hotel
drinker Adam Gernot	bar Coogee Bay Hotel Lord Nelson
drinker Adam Gernot John	bar Coogee Bay Hotel Lord Nelson Coogee Bay Hotel
Adam Gernot John Marie	bar Coogee Bay Hotel Lord Nelson Coogee Bay Hotel Rose Bay Hotel
Adam Gernot John Marie John	bar Coogee Bay Hotel Lord Nelson Coogee Bay Hotel Rose Bay Hotel Lord Nelson

Donner les couples de personnes qui fréquentent un même bar

Toujours requête pas tout à fait correcte

SELECT F1.drinker, F2.drinker

FROM Frequents F1 JOIN Frequents F2 ON (F1.bar = F2.bar AND F1.drinker < F2.drinker);

	drinker	drinker	drinker	dr
1	Adam	John	Adam	Joh
2	Gernot	John	Gernot	Joh
3	John	Adam		
4	John	Gernot		

	Frequents F1
drinker	bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
John	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
John	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar
	Frequents F2
drinker	bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
John	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
John	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar

Donner les couples de personnes qui fréquentent un même bar

Potentiellement on peut avoir des doublons (2 personnes peuvent fréquenter ensemble plusieurs bars)! -> besoin de DISTINCT

SELECT DISTINCT F1.drinker, F2.drinker

FROM Frequents F1 JOIN Frequents F2 ON (F1.bar = F2.bar AND F1.drinker < F2.drinker);

drinker	drinker
Adam	John
Gernot	John

SELECT DISTINCT F1.drinker AS drinker1, F2.drinker AS drinker2
FROM Frequents F1 JOIN Frequents F2 ON (F1.bar = F2.bar AND F1.drinker < F2.drinker);

	drinker1	drinker2
1	Adam	John
2	Gernot	John

F1 Frequents drinker bar Coogee Bay Hotel Adam Lord Nelson Gernot Coogee Bay Hotel John Marie Rose Bay Hotel Lord Nelson John John Australia Hotel Justin Regent Hotel Marble Bar Justin Frequents drinker bar Coogee Bay Hotel Adam Lord Nelson Gernot John Coogee Bay Hotel Marie Rose Bay Hotel John Lord Nelson Australia Hotel John Regent Hotel Justin Marble Bar Justin

Donner le bar fréquenté par Gernot et John

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name	addr	license	openDate
Australia Hotel	The Rocks	123456	12/1/1940
Coogee Bay Hotel	Coogee	966500	31/8/1980
Rose Bay Hotel	Rose Bay	966410	31/8/1920
Lord Nelson	The Rocks	123888	11/11/1920
Marble Bar	Sydney	122123	1/4/2001
Regent Hotel	Kingsford	987654	29/2/2000
Royal Hotel	Randwick	938500	26/6/1986

Drinkers

name	addr	phone
Adam	Randwick	9385-4444
Gernot	Newtown	9415-3378
John	Clovelly	9665-1234
Justin	Mosman	9845-4321
Marie	Rose Bay	9371-2126
Adrian	Redfern	9371-1244

Frequents

rrequeries		
drinker	bar	
Adam	Coogee Bay Hotel	
Gernot	Lord Nelson	
$_{ m John}$	Coogee Bay Hotel	
Marie	Rose Bay Hotel	
John	Lord Nelson	
$_{ m John}$	Australia Hotel	
Justin	Regent Hotel	
Justin	Marble Bar	

Donner le bar fréquenté par Gernot et John

```
SELECT bar
FROM Frequents
WHERE drinker = 'Gernot' AND drinker='John';
Impossible (vérification par ligne) -> no rows selected
```

```
SELECT bar
FROM Frequents
WHERE drinker = 'Gernot' OR drinker='John';
```

Faux. Pas forcément les deux!

Frequents

1	
drinker	bar
Adam	Coogee Bay Hotel
Gernot	Lord Nelson
$_{ m John}$	Coogee Bay Hotel
Marie	Rose Bay Hotel
John	Lord Nelson
John	Australia Hotel
Justin	Regent Hotel
Justin	Marble Bar

Donner le bar fréquenté par Gernot et John

```
SELECT F1.bar
   FROM Frequents F1 JOIN Frequents F2 ON (F1.bar = F2.bar)
   WHERE F1.drinker = 'Gernot' AND F2.drinker='John';
✓ SELECT bar
   FROM Frequents F1 JOIN Frequents F2 USING (bar )
   WHERE F1.drinker = 'Gernot' AND F2.drinker='John';
✓ SELECT bar
                                 SELECT bar
   FROM Frequents
                                 FROM Frequents
   WHERE drinker = 'Gernot'
                                 WHERE drinker = 'Gernot' AND bar IN
   INTERSECT
                                   (SELECT bar
   SELECT bar
                                   FROM Frequents
                                   WHERE drinker = 'John');
   FROM Frequents
   WHERE drinker = 'John';
```

F1 Frequents drinker bar Adam Coogee Bay Hotel Gernot Lord Nelson Coogee Bay Hotel John Marie Rose Bay Hotel Lord Nelson John John Australia Hotel Justin Regent Hotel Marble Bar Justin

Frequents drinker bar Coogee Bay Hotel Adam Lord Nelson Gernot Coogee Bay Hotel John Marie Rose Bay Hotel John Lord Nelson John Australia Hotel Regent Hotel Justin Marble Bar Justin