

Check the following database:

### DEPARTMENTS:

num	name	town_code
10	ACCOUNTING	SVQ
20	RESEARCH	MAD
30	SALES	BCN
40	PRODUCTION	BIO

### EMPLOYEES:

num	surname	name	manager	start_date	salary	commission	dept_num	occu_code
800	BANDERAS	ANTONIO	7839	1991-01-09	2885	NULL	20	MAN
7369	SÁNCHEZ	SERGIO	7902	1990-12-17	1040	NULL	20	EMP
7499	ARROYO	MARTA	7698	1990-02-20	1500	390	30	SAL
7521	SALA	RAUL	7698	1991-02-22	1625	650	30	SAL
7566	JIMÉNEZ	JUDIT	7839	1991-04-02	2900	NULL	20	MAN
7654	MARTÍN	MONICA	7698	1991-09-29	1600	1020	30	SAL
7698	NEGRO	BARTOLOME	7839	1991-05-01	3005	NULL	30	MAN
7782	CEREZO	ENRIQUE	7839	1991-06-09	2885	NULL	10	MAN
7788	GIL	JESUS	7566	1991-11-09	3000	NULL	20	ANA
7844	TOVAR	LUIS	7698	1991-09-08	1350	0	30	SAL
7876	ALONSO	FERNANDO	7788	1991-09-23	1430	NULL	20	EMP
7900	JIMENO	XAVIER	7698	1991-12-03	1335	NULL	30	EMP
7902	FERNÁNDEZ	ANA	7566	1991-12-03	3000	NULL	20	ANA
7934	MUÑOZ	ANTONIA	7782	1992-01-23	1690	NULL	10	EMP
8001	RUIZ	FERNANDA	7839	1992-06-10	2885	NULL	20	MAN

### OCCUPATIONS:

code	name
ANA	ANALYST
EMP	EMPLOYEE
MAN	MANAGER
PRE	PRESIDENT
SAL	SALESMAN

### TOWNS:

code	name
BCN	BARCELONA
BIO	BILBAO
MAD	MADRID
SVQ	SEVILLA

Import the next database:

```
CREATE DATABASE IF NOT EXISTS `EMPLOYEEESDBNORMAL`;
USE `EMPLOYEEESDBNORMAL`;

CREATE TABLE IF NOT EXISTS `DEPARTMENTS` (
  `num` int(11) NOT NULL,
  `name` varchar(30) NOT NULL,
  `town_code` varchar(3) DEFAULT NULL,
  PRIMARY KEY (`num`),
  KEY `town_code` (`town_code`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

INSERT INTO `DEPARTMENTS` (`num`, `name`, `town_code`) VALUES
(10, 'ACCOUNTING', 'SVQ'),
```

```
(20, 'RESEARCH', 'MAD'),
(30, 'SALES', 'BCN'),
(40, 'PRODUCTION', 'BIO');
```

```
CREATE TABLE IF NOT EXISTS `EMPLOYEES` (
  `num` int(11) NOT NULL,
  `surname` varchar(50) NOT NULL,
  `name` varchar(50) NOT NULL,
  `manager` int(11) DEFAULT NULL,
  `start_date` date DEFAULT NULL,
  `salary` int(11) DEFAULT NULL,
  `commission` int(11) DEFAULT NULL,
  `dept_num` int(11) DEFAULT NULL,
  `occu_code` varchar(3) DEFAULT NULL,
  PRIMARY KEY (`num`),
  KEY `dept_num` (`dept_num`),
  KEY `occu_code` (`occu_code`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
INSERT INTO `EMPLOYEES` (`num`, `surname`, `name`, `manager`, `start_date`, `salary`,
`commission`, `dept_num`, `occu_code`) VALUES
(800, 'BANDERAS', 'ANTONIO', 7839, '1991-01-09', 2885, NULL, 20, 'MAN'),
(7369, 'SÁNCHEZ', 'SERGIO', 7902, '1990-12-17', 1040, NULL, 20, 'EMP'),
(7499, 'ARROYO', 'MARTA', 7698, '1990-02-20', 1500, 390, 30, 'SAL'),
(7521, 'SALA', 'RAUL', 7698, '1991-02-22', 1625, 650, 30, 'SAL'),
(7566, 'JIMÉNEZ', 'JUDIT', 7839, '1991-04-02', 2900, NULL, 20, 'MAN'),
(7654, 'MARTÍN', 'MONICA', 7698, '1991-09-29', 1600, 1020, 30, 'SAL'),
(7698, 'NEGRO', 'BARTOLOME', 7839, '1991-05-01', 3005, NULL, 30, 'MAN'),
(7782, 'CEREZO', 'ENRIQUE', 7839, '1991-06-09', 2885, NULL, 10, 'MAN'),
(7788, 'GIL', 'JESUS', 7566, '1991-11-09', 3000, NULL, 20, 'ANA'),
(7844, 'TOVAR', 'LUIS', 7698, '1991-09-08', 1350, 0, 30, 'SAL'),
(7876, 'ALONSO', 'FERNANDO', 7788, '1991-09-23', 1430, NULL, 20, 'EMP'),
(7900, 'JIMENO', 'XAVIER', 7698, '1991-12-03', 1335, NULL, 30, 'EMP'),
(7902, 'FERNÁNDEZ', 'ANA', 7566, '1991-12-03', 3000, NULL, 20, 'ANA'),
(7934, 'MUÑOZ', 'ANTONIA', 7782, '1992-01-23', 1690, NULL, 10, 'EMP'),
(8001, 'RUIZ', 'FERNANDA', 7839, '1992-06-10', 2885, NULL, 20, 'MAN');
```

```
CREATE TABLE IF NOT EXISTS `OCCUPATIONS` (
  `code` varchar(3) NOT NULL,
  `name` varchar(30) NOT NULL,
  PRIMARY KEY (`code`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
INSERT INTO `OCCUPATIONS` (`code`, `name`) VALUES
('ANA', 'ANALYST'),
('EMP', 'EMPLOYEE'),
('MAN', 'MANAGER'),
('PRE', 'PRESIDENT'),
('SAL', 'SALESMAN');
```

```
CREATE TABLE IF NOT EXISTS `TOWNS` (
  `code` varchar(3) NOT NULL,
  `name` varchar(30) NOT NULL,
  PRIMARY KEY (`code`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
INSERT INTO `TOWNS` (`code`, `name`) VALUES
('BCN', 'BARCELONA'),
('BIO', 'BILBAO'),
('MAD', 'MADRID'),
('SVQ', 'SEVILLA');
```

```
ALTER TABLE `DEPARTMENTS`
  ADD CONSTRAINT `DEPARTMENTS_ibfk_1` FOREIGN KEY (`town_code`) REFERENCES `TOWNS`
  (`code`);
```

```
ALTER TABLE `EMPLOYEES`
```

```

ADD CONSTRAINT `EMPLOYEES_ibfk_1` FOREIGN KEY (`dept_num`) REFERENCES `DEPARTMENTS`
(`num`),
ADD CONSTRAINT `EMPLOYEES_ibfk_2` FOREIGN KEY (`occu_code`) REFERENCES `OCCUPATIONS`
(`code`);

```

Do the following queries with that database:

1. Display the number of employees in each department. Use GROUP BY to group by department.

dept_num	N_employees
10	2
20	7
30	6

3 rows in set (0.001 sec)

```
1 • SELECT dept_num, count(num) as N_employees FROM C04.EMPLOYEES where dept_num <=30 group by dept_num;
```

dept_num	N_employees
10	2
20	7
30	6

2. For each occupations obtain the average of salary.

name	average_salary
ANALYST	3000.0000
EMPLOYEE	1373.7500
MANAGER	2912.0000
SALESMAN	1518.7500

4 rows in set (0.001 sec)

```

1 • SELECT OCCUPATIONS.name, avg(EMPLOYEES.salary) as avergae_salary
2 FROM C04.EMPLOYEES
3 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
4 group by EMPLOYEES.occu_code;

```

name	avergae_salary
ANALYST	3000.0000
EMPLOYEE	1373.7500
MANAGER	2912.0000
SALESMAN	1518.7500

3. Display the departments with more than 5 employees. Use GROUP BY to group by department and HAVING to establish the condition on the groups.

```
+-----+-----+
| dept_num | num_employees |
+-----+-----+
|      20 |             7 |
|      30 |             6 |
+-----+-----+
2 rows in set (0.001 sec)
```

```
1 • SELECT dept_num, count(num) as N_employees
2   FROM C04.EMPLOYEES
3   group by dept_num
4   having count(num)>5;
```

dept_num	N_employees
20	7
30	6

4. Find the average wages (= "media de los salarios") of each department (use the function avg and GROUP BY).

```
+-----+-----+
| dept_num | average_wages |
+-----+-----+
|      10 |    2287.5000 |
|      20 |    2448.5714 |
|      30 |    1735.8333 |
+-----+-----+
3 rows in set (0.002 sec)
```

```
1 • SELECT EMPLOYEES.dept_num, avg(EMPLOYEES.salary) as avergae_salary
2   FROM C04.EMPLOYEES
3   group by EMPLOYEES.dept_num;
```

dept_num	avergae_salary
10	2287.5000
20	2448.5714
30	1735.8333

5. Display the surname of the salesmen of the 'SALES' department.

```
+-----+
| surname |
+-----+
| ARROYO  |
| SALA    |
| MARTÍN  |
| TOVAR   |
+-----+
```

4 rows in set (0.001 sec)

```
1 • SELECT EMPLOYEES.surname
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 where DEPARTMENTS.name="SALES";
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



surname
ARROYO
SALA
MARTÍN
NEGRO
TOVAR
JIMENO

I've got 6 workers on SALES i don't know why but i count in manually too.

6. Display the sum of salaries of the 'SALES' department.

```
+-----+-----+
| name | total |
+-----+-----+
| SALES | 10415 |
+-----+-----+
```

1 row in set (0.001 sec)

```
select DEPARTMENTS.name, sum(EMPLOYEES.salary)...
(Se me olvido, el name)
```

```
1 • SELECT sum(EMPLOYEES.salary)
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 where DEPARTMENTS.name="SALES";
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

sum(EMPLOYEES.salary)
10415

```

1  select D.name, sum(salary) as total
2  from EMPLOYEES as E, DEPARTMENTS as D
3  where E.dept_num = D.num
4  and D.name="SALES"
5  group by D.name;

```

Result Grid	
name	total
SALES	10415

7. Display the count of employees with occupation "EMPLOYEE" in every department (show the name of the department).

name	num
ACCOUNTING	1
RESEARCH	2
SALES	1

3 rows in set (0.001 sec)

```

1  • SELECT DEPARTMENTS.name, count(EMPLOYEES.occu_code) FROM C04.EMPLOYEES
2  inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
3  where occu_code="EMP"
4  group by EMPLOYEES.dept_num;

```

Result Grid	
name	count(EMPLOYEES.occu_code)
RESEARCH	2
SALES	1
ACCOUNTING	1

```

1  • SELECT DEPARTMENTS.name, count(OCCUPATIONS.name) as num
2  from C04.EMPLOYEES, C04.DEPARTMENTS, C04.OCCUPATIONS
3  where EMPLOYEES.dept_num=DEPARTMENTS.num and EMPLOYEES.occu_code=OCCUPATIONS.code and OCCUPATIONS.name="EMPLOYEE"
4  group by DEPARTMENTS.name;

```

Result Grid	
name	num
RESEARCH	2
SALES	1
ACCOUNTING	1

8. Show the number of different occupations in each department.

Department	Occupation	Number_of_employees
ACCOUNTING	EMPLOYEE	1
ACCOUNTING	MANAGER	1
RESEARCH	ANALYST	2
RESEARCH	EMPLOYEE	2
RESEARCH	MANAGER	3
SALES	EMPLOYEE	1
SALES	MANAGER	1
SALES	SALESMAN	4

8 rows in set (0.004 sec)

```

1 • SELECT DEPARTMENTS.name as Department, OCCUPATIONS.name as Occupation, count(EMPLOYEES.num) as Number_of_employees
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
5 group by DEPARTMENTS.name, OCCUPATIONS.name

```

Department	Occupation	Number_of_employees
ACCOUNTING	MANAGER	1
ACCOUNTING	EMPLOYEE	1
RESEARCH	MANAGER	3
RESEARCH	EMPLOYEE	2
RESEARCH	ANALYST	2
SALES	SALESMAN	4
SALES	MANAGER	1
SALES	EMPLOYEE	1

9. Show departments that have more than two people working in the same occupation.

Department
RESEARCH
SALES

2 rows in set (0.002 sec)

```

1 • SELECT DEPARTMENTS.name as Department
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
5 group by DEPARTMENTS.name, OCCUPATIONS.name
6 having count(EMPLOYEES.num)>2;

```

Department
RESEARCH
SALES



10. Displays a query that is the union between the table OCCUPATIONS and TOWNS.

```
1 • SELECT * FROM C04.OCCUPATIONS
2 UNION
3 select * from C04.TOWNS;
```

result Grid		Filter Rows:
code	name	
ANA	ANALYST	
EMP	EMPLOYEE	
MAN	MANAGER	
PRE	PRESIDENT	
SAL	SALESMAN	
BCN	BARCELONA	
BIO	BILBAO	
MAD	MADRID	
SVQ	SEVILLA	

11. Do the same query than in exercise 10 but order the results by name.

code	name
ANA	ANALYST
BCN	BARCELONA
BIO	BILBAO
EMP	EMPLOYEE
MAD	MADRID
MAN	MANAGER
PRE	PRESIDENT
SAL	SALESMAN
SVQ	SEVILLA

9 rows in set (0.001 sec)

```
1 • SELECT * FROM C04.OCCUPATIONS
2 UNION
3 select * from C04.TOWNS
4 order by name;
```

result Grid		Filter Rows:
code	name	
ANA	ANALYST	
BCN	BARCELONA	
BIO	BILBAO	
EMP	EMPLOYEE	
MAD	MADRID	
MAN	MANAGER	
PRE	PRESIDENT	
SAL	SALESMAN	
SVQ	SEVILLA	

12. Select the occupation names of all the employees of the department with name 'RESEARCH' and do the union of this query with the selection of the occupation names of the employees of the department with name 'SALES'. Use union operator.



code	name
ANA	ANALYST
EMP	EMPLOYEE
MAN	MANAGER
PRE	PRESIDENT
SAL	SALESMAN
BCN	BARCELONA
BIO	BILBAO
MAD	MADRID
SVQ	SEVILLA

name
ANALYST
EMPLOYEE
MANAGER
SALESMAN

9 rows in set (0.001 sec) 4 rows in set (0.001 sec)

```

1 • SELECT OCCUPATIONS.name FROM C04.EMPLOYEES
2   inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
3   inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4   where DEPARTMENTS.name="RESEARCH"
5   UNION
6   SELECT OCCUPATIONS.name FROM C04.EMPLOYEES
7   inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
8   inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
9   where DEPARTMENTS.name="SALES";

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
name			
MANAGER			
EMPLOYEE			
ANALYST			
SALESMAN			

13. Repeat the last query showing the repeated results (union all).

name
ANALYST
ANALYST
EMPLOYEE
EMPLOYEE
MANAGER
MANAGER
MANAGER
EMPLOYEE
MANAGER
SALESMAN
SALESMAN
SALESMAN
SALESMAN

13 rows in set (0.001 sec)

```

1 • SELECT OCCUPATIONS.name FROM C04.EMPLOYEES
2   inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
3   inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4   where DEPARTMENTS.name="RESEARCH"
5   UNION ALL
6   SELECT OCCUPATIONS.name FROM C04.EMPLOYEES
7   inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
8   inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
9   where DEPARTMENTS.name="SALES";

```

Result Grid	Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
name			
MANAGER			
EMPLOYEE			
MANAGER			
ANALYST			
EMPLOYEE			
ANALYST			
MANAGER			
SALESMAN			
SALESMAN			
SALESMAN			
MANAGER			
SALESMAN			
EMPLOYEE			

14. Display the number of sellers in the 'SALES' department.

```

+-----+
| number_of_sellers |
+-----+
|                4 |
+-----+
1 row in set (0.001 sec)

```

```

1 • SELECT count(EMPLOYEES.num) as number_of_sellers
2   FROM C04.EMPLOYEES
3   inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4   inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
5   where DEPARTMENTS.name="SALES" and OCCUPATIONS.name="SALESMAN";

```

Result Grid	Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
number_of_sellers			
4			

15. Display the surnames and occupations of the employees of the 'SALES' department.

surname	name
JIMENO	EMPLOYEE
NEGRO	MANAGER
ARROYO	SALESMAN
SALA	SALESMAN
MARTÍN	SALESMAN
TOVAR	SALESMAN


6 rows in set (0.001 sec)


```

1 • SELECT EMPLOYEES.surname, OCCUPATIONS.name
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
5 where DEPARTMENTS.name="SALES";

```


Result Grid





Filter Rows:

Export:



Wrap Cell Content:



surname	name
ARROYO	SALESMAN
SALA	SALESMAN
MARTÍN	SALESMAN
NEGRO	MANAGER
TOVAR	SALESMAN
JIMENO	EMPLOYEE

16. Display the number of employees and occupations of the employees of the 'SALES' department.

name	number_of_employees
EMPLOYEE	1
MANAGER	1
SALESMAN	4


3 rows in set (0.001 sec)


```


1 • SELECT OCCUPATIONS.name, count(EMPLOYEES.num) as number_of_employees
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
5 where DEPARTMENTS.name="SALES"
6 group by OCCUPATIONS.name;

```

Result Grid

 Filter Rows:

 Export:

 Wrap Cell Content:

name	number_of_employees
SALESMAN	4
MANAGER	1
EMPLOYEE	1

17. Display the number of employees of each department whose profession is "EMPLOYEE".

name	number_of_employees
ACCOUNTING	1
RESEARCH	2
SALES	1

3 rows in set (0.001 sec)

```
1 • SELECT DEPARTMENTS.name, count(EMPLOYEES.num) as number_of_employees
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
5 where OCCUPATIONS.name="EMPLOYEE"
6 group by DEPARTMENTS.name;
```

name	number_of_employees
RESEARCH	2
SALES	1
ACCOUNTING	1

18. Display the department names and the count of employees working into them.

name	number_of_employees
ACCOUNTING	2
RESEARCH	7
SALES	6

3 rows in set (0.001 sec)

```
1 • SELECT DEPARTMENTS.name, count(EMPLOYEES.num) as number_of_employees
2 FROM C04.EMPLOYEES
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 group by DEPARTMENTS.name;
```

name	number_of_employees
ACCOUNTING	2
RESEARCH	7
SALES	6

19. Display the maximum number of employees of all the departments (clue: you need exercise 18 as a subquery and you should use MAX function).

max_number
7

1 row in set (0.001 sec)

```

1 • select max(al_fin.number_of_employees) as max_number
2   from (
3     SELECT count(EMPLOYEES.num) as number_of_employees
4     FROM C04.EMPLOYEES
5     inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
6     group by DEPARTMENTS.name) as al_fin;

```

max_number
7

20. Show the departments whose average salary is greater than the average of salaries of all employees.

dept_num	average_salary
10	2287.5000
20	2448.5714

2 rows in set (0.001 sec)

```

1 • select *
2   from(
3     SELECT EMPLOYEES.dept_num, avg(EMPLOYEES.salary) as average_salary
4     FROM C04.EMPLOYEES
5     group by EMPLOYEES.dept_num) as al_fin
6   where al_fin.average_salary > (select avg(salary) from C04.EMPLOYEES)
7   ;

```

dept_num	average_salary
10	2287.5000
20	2448.5714

21. **DANGER, this is for PROS:** Display the name of the department with more employees and its number of employees (clue you must use HAVING with a subselect inside).



name	num_employees
RESEARCH	7

1 row in set (0.001 sec)

```

1 • select DEPARTMENTS.name, count(EMPLOYEES.num) as num_emp from C04.EMPLOYEES
2 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
3 group by DEPARTMENTS.name
4 having num_emp = (select max(a.num_emp) from (select count(EMPLOYEES.num) as num_emp from C04.EMPLOYEES
5 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
6 group by DEPARTMENTS.name) as a);

```

name	num_emp
RESEARCH	7

22. Repeat 12 changing “union” for “intersect”.

name
EMPLOYEE
MANAGER

2 rows in set (0.002 sec)

```

1 • SELECT OCCUPATIONS.name FROM C04.EMPLOYEES
2 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
3 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4 where DEPARTMENTS.name="RESEARCH"
5 ✖ INTERSECT
6 SELECT OCCUPATIONS.name FROM C04.EMPLOYEES
7 inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
8 inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
9 where DEPARTMENTS.name="SALES";

```

My sql no lo soporta según tengo entendido, al menos esta versión





[intersection - problem with intersect operation in a sql query - Stack Overflow](#)

23. Repeat 22 but do not use intersect operator to query the same data (clue: IN operator).

name
EMPLOYEE
MANAGER

2 rows in set (0.002 sec)

```
1 • select distinct a.name from (select OCCUPATIONS.name from C04.EMPLOYEES
2   inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
3   inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
4   where DEPARTMENTS.name = "Research") as a
5   inner join (select OCCUPATIONS.name from C04.EMPLOYEES
6     inner join OCCUPATIONS on EMPLOYEES.occu_code=OCCUPATIONS.code
7     inner join DEPARTMENTS on EMPLOYEES.dept_num=DEPARTMENTS.num
8     where DEPARTMENTS.name="SALES"
9   ) as b on b.name = a.name
```

result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
name					
EMPLOYEE					
MANAGER					

This is one way I found to commit intersect using Inner join but couldn't find anything about using it in that way.

[Understanding SQL INTERSECT Operator \(sqltutorial.org\)](http://sqltutorial.org)