Assignment No. 7

Aim: Implement nested sub queries. Perform a test for set membership (in, not in), set comparison (<some, >=some, <all etc.) and set cardinality (unique, not unique).

Objective:

- To learn different types of Joins.
- To implement different subqueries.

Theory:

MySQL JOINS are used with SELECT statement. It is used to retrieve data from multiple tables. It is performed whenever you need to fetch records from two or more tables.

There are three types of MySQL joins:

- MySQL INNER JOIN (or sometimes called simplejoin)
- MySQL LEFT OUTER JOIN (or sometimes called LEFTJOIN)
- MySQL RIGHT OUTER JOIN (or sometimes called RIGHTJOIN)

MySQL Inner JOIN (Simple Join)

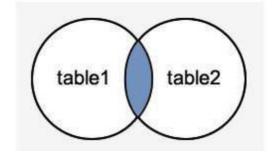
The MySQL INNER JOIN is used to return all rows from multiple tables where the join condition is satisfied. It is the most common type of join.

Syntax:

SELECT columns FROM table1

INNER JOIN table2 ON table1.column = table2.column;

Image representation:



Let's take an example:

Consider two tables "officers" and "students", having the following data.

Execute the following query:

SELECT officers.officer_name, officers.address, students.course_name FROM officers
INNER JOIN students
ON officers.officer_id = students.student_id;

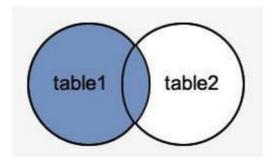
MySQL Left Outer Join

The LEFT OUTER JOIN returns all rows from the left hand table specified in the ON condition and only those rows from the other table where the join condition is fulfilled.

Syntax:

SELECT columns FROM table1 LEFT [OUTER] JOIN table2 ON table1.column = table2.column;

Imagerepresentation:



Let's take anexample:

Consider two tables "officers" and "students", having the following data.

Execute the following query:

SELECT officers.officer_name, officers.address, students.course_name FROM officers
LEFT JOIN students
ON officers.officer_id = students.student_id;

MySQL Right Outer Join

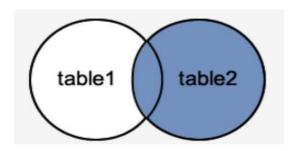
The MySQL Right Outer Join returns all rows from the RIGHT-hand table specified in the ON condition and only those rows from the other table where he join condition is fulfilled.

Syntax:

SELECT columns

FROM table1
RIGHT [OUTER] JOIN table2
ON table1.column = table2.column;

Image representation:



Let's take an example:

Consider two tables "officers" and "students", having the following data.

Execute the following query:

SELECT officers.officer_name, officers.address, students.course_name, students.student_name
FROM officers
RIGHT JOIN students
ON officers.officer id = students.student id;

SPECIAL OPERATOR:

MySQL IN Condition

The MySQL IN condition is used to reduce the use of multiple OR conditions in a SELECT, INSERT, UPDATE and DELETE statement.

Syntax:

expression IN(value1, value2,..... value_n);

Parameters:

expression: It specifies a value to test.

value1, value2, or value n: These are the values to test against expression. If any of these

values matches expression, then the IN condition will evaluate to true. This is a quick method to test if any one of the values matches expression.

Execute the following query:

FROM officers
WHERE officer_name IN ('Ajeet', 'Vimal', 'Deepika');

MySQL NOT Condition

The MySQL NOT condition is opposite of MySQL IN condition. It is used to negate a condition in a SELECT, INSERT, UPDATE or DELETE statement.

Syntax:

NOT condition

Parameter:

condition: It specifies the conditions that you want to negate.

MySQL NOT Operator with IN condition

Consider a table "officers", having the following data.

Execute the following query:

SELECT *

FROM officers

WHERE officer_name NOT IN ('Ajeet','Vimal','Deepika');

MySQL IS NULL Condition

MySQL IS NULL condition is used to check if there is a NULL value in the expression. It is used with SELECT, INSERT, UPDATE and DELETE statement.

Syntax:

expression IS NULL

Parameter:

expression: It specifies a value to test if it is NULL

Execute the following query:

SELECT *
FROM officers
WHERE officer name IS NULL;

MySQL IS NOT NULL Condition

MySQL IS NOT NULL condition is used to check the NOT NULL value in the expression. It is used with SELECT, INSERT, UPDATE and DELETE statements.

Syntax:

expression IS NOT NULL

Parameter:

expression: It specifies a value to test if it is not NULL value.

Execute the following query:

SELECT *
FROM officers
WHERE officer_name IS NOT NULL;

SET OPERATORS:

The Set operator combines the result of 2 queries into a single result. The following are the operators:

| | TT |
|--------|-------|
| 1 1 | Union |
| \Box | |

Unionall

- □ Intersect
- □ Minus

LAB PRACTICE ASSIGNMENT:

Consider the following table structure for this assignment:

- Location(<u>Location Id</u> integer, Reginal_Groupvarchar(20))
- Department (Department_Id, Name,Location_Id)
- Job(<u>Job_Id</u>Integer,FunctionVarchar(30))
- Employee(<u>Employee_Id</u>, Lastname ,Firstname, Middlename, Job_Id, Manager_Id, Hiredate, Salary,Department_Id)
- Loan(Employee_Id, Firstname, Loan_Amount)

LOCATION TABLE

| LOCATION_ID | REGINAL_GROUP |
|-------------|---------------|
| 122 | New York |
| 123 | Dallas |
| 124 | Chicago |
| 167 | Boostan |

DEPARTMENT TABLE

| Name – Aditya So | mani | Roll N | lo. – T18510 | 61 | PRN N | lo.:71901204L |
|------------------|------|--------|--------------|-----|-------|---------------|
| 10 |) | | Accounting | 122 | | |

| 20 | Research | 124 |
|----|-----------|-----|
| 30 | Sale | 123 |
| 40 | Operation | 164 |

Roll No. – T1851061

PRN No.: 71901204L

JOB TABLE

Name – Aditya Somani

| JOB_ID | FUNCTION |
|--------|-----------------|
| 667 | Cleark |
| 668 | Staff |
| 669 | Analyst |
| 670 | Saleperson |
| 671 | Manager |
| 672 | President |

EMPLOYEE TABLE

| EMPL OYEE_ ID | LAST NAM E | FIRS TNA ME | MIDD LENA ME | JO B_I D | MANA GER_I D | HIR EDA TE | SAL AR Y | DEPART MENT_I D |
|---------------------|------------------|-------------------|--------------------|----------------|--------------------|-------------------|----------------|-----------------------|
| 7369 | Smith | Jon | Q | 667 | 7902 | 17- DEC- 84 | 800 | 10 |
| 7499 | Allen | Kevin | J | 670 | 7698 | 20- FEB- 85 | 1600 | 20 |
| 7505 | Doyle | Jean | K | 671 | 7839 | 04- APR- 85 | 2850 | 20 |
| 7506 | Dennis | Lynn | S | 671 | 7839 | 15- MAY- 85 | 2750 | 30 |
| 7507 | Baker | Leslie | D | 671 | 7839 | 10- JUN- 85 | 2200 | 40 |
| 7521 | wark | cynthia | D | 670 | 7698 | 22- FEB- 85 | 1250 | 10 |

1) Perform all types of JOIN operations on Employee and Loantables.

- 2) Perform all types of set operations on Employee and Loantables.
- 3) Find out no. of employees working in "Sales" department
- 4) Find out the employees who are not working in department 10 or 30.
- 5) List out employee id, last name in descending order based on the salarycolumn.
- 6) How many employees who are working in different departments wise in the organization
- 7) List out the department id having at least fouremployees
- 8) Display the employee who got the maximumsalary.
- 9) Update the employees' salaries, who are working as Clerk on the basis of 10%.
- 10) Delete the employees who are working in accountingdepartment.
- 11) Find out whose department has notemployees.
- 12) List out the department wise maximum salary, minimum salary, average salary of the employees
- 13) How many employees who are joined in 1985.
- 14) Display the employees who are working in "NewYork"
- **15**) List our employees with their departmentnames

Conclusion:

We have implemented join, set operations, set cardinalities and nested sub queries.

OUTPUT -

mysql> use dbms;
Database changed

-CREATE TABLE LOCATION -

mysql> CREATE TABLE LOCATION(LOCATION_ID INT, REGINAL_GROUP VARCHAR(10));

Query OK, 0 rows affected (0.12 sec)

-INSERT INTO LOCATION TABLE -

mysql> INSERT INTO `location` (`LOCATION_ID`, `REGINAL_GROUP`) VALUES ('122', 'NEW YORK'), ('123', 'DALLAS'), ('124', 'CHICAGO'), ('167', 'BOOSTAN');

Query OK, 4 rows affected (0.06 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from location;

+----+

| LOCATION_ID | REGINAL_GROUP |

+----+

- | 122 | NEW YORK |
- | 123 | DALLAS |
- | 124 | CHICAGO |
- | 167 | BOOSTAN

+----+

4 rows in set (0.00 sec)

-CREATE TABLE DEPARTMENT -

mysql> CREATE TABLE DEPARTMENT(DEPARTMENT_ID INT, NAME VARCHAR(15), LOCATION_ID INT);

Query OK, 0 rows affected (0.08 sec)

-INSERT INTO DEPARTMENT TABLE-

mysql> INSERT INTO department VALUES ('10', 'ACCOUNTING', '122'), ('20', 'RESEARCH', '124'), ('30', 'SALE', '123'), ('40', 'OPERATION', '164');

Query OK, 4 rows affected (0.02 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> select * from department;
+----+
| DEPARTMENT_ID | NAME | LOCATION_ID |
+----+
10 | ACCOUNTING | 122 |
     20 | RESEARCH | 124 |
     30 | SALE | 123 |
      40 | OPERATION | 164 |
+----+
4 rows in set (0.00 sec)
-CREATE TABLE JOB -
mysql> CREATE TABLE JOB(JOB_ID INT (30), FUNC VARCHAR (15));
Query OK, 0 rows affected, 1 warning (0.36 sec)
-INSERT INTO JOB-
mysql> INSERT INTO job VALUES ('667', 'CLERK'), ('668', 'STAFF'), ('669', 'ANALYST'), ('670',
'SALEPERSON'), ('671', 'MANAGER'), ('672', 'PRESIDENT');
Query OK, 6 rows affected (0.03 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> select * from job;
+----+
| JOB ID | FUNC |
+----+
| 667 | CLERK |
| 668 | STAFF |
| 669 | ANALYST |
| 670 | SALEPERSON |
| 671 | MANAGER |
| 672 | PRESIDENT |
+----+
```

6 rows in set (0.00 sec)

-CREATE TABLE EMPLOYEE-

mysql> CREATE TABLE EMPLOYEE(EMPLOYEE_ID INT, LASTNAME VARCHAR(15), FIRSTNAME VARCHAR(15), MIDDLENAME VARCHAR(15), JOB_ID INT, MANAGER_ID INT, HIREDATE VARCHAR(15), SALARY INT, DEPARTMENT ID INT);

Query OK, 0 rows affected (0.15 sec)

-INSERT INTO EMPLOYEE-

mysql> INSERT INTO employee VALUES ('7369', 'SMITH', 'JON', 'Q', '667', '7902', '17-DEC-84', '800', '10'), ('7499', 'ALLEN', 'KEVIN', 'J', '670', '7698', '20-FEB-85', '1600', '20'), ('7505', 'DOYLE', 'JEAN', 'K', '671', '7839', '04-APR-85', '2850', '20'), ('7506', 'DENNIS', 'LYNN', 'S', '671', '7839', '15-MAY-85', '2750', '30'), ('7507', 'BAKER', 'LESLIE', 'D', '671', '7839', '10-JUN-85', '2200', '40'), ('7521', 'WARK', 'CYNTHIA', 'D', '670', '7698', '22-FEB-85', '1250', '10');

Query OK, 6 rows affected (0.02 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select * from employee; +-----+ | EMPLOYEE_ID | LASTNAME | FIRSTNAME | MIDDLENAME | JOB_ID | MANAGER_ID | HIREDATE | SALARY | DEPARTMENT_ID | +-----+ 7369 | SMITH | JON | Q | 667 | 7902 | 17-DEC-84 | 800 | 10 | 7499 | ALLEN | KEVIN | J | 670 | 7698 | 20-FEB-85 | 1600 | 20 | 7505 | DOYLE | JEAN | K | 671 | 7839 | 04-APR-85 | 2850 | 20 | 1 7506 | DENNIS | LYNN | S | 671 | 7839 | 15-MAY-85 | 2750 | 30 | 7507 | BAKER | LESLIE | D | 671 | 7839 | 10-JUN-85 | 2200 | 40 | 7521 | WARK | CYNTHIA | D | 670 | 7698 | 22-FEB-85 | 1250 | 10 |

6 rows in set (0.00 sec)

-CREATE TABLE LOAN-

mysql> CREATE TABLE LOAN(EMPLOYEE ID INT, FIRSTNAME VARCHAR(10), AMOUNT INT);

Query OK, 0 rows affected (0.23 sec)

-INSERT INTO LOAN TABLE-

mysql> INSERT INTO loan VALUES ('7506', 'LYNN', '35000'), ('7521', 'CYNTHIA', '100000'), ('6734', 'KEVIN', '65000'), ('7666', 'CHRIS', '56000'), ('7369', 'JON', '30000');

```
Query OK, 5 rows affected (0.03 sec)
```

Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from loan;

+----+

| EMPLOYEE_ID | FIRSTNAME | AMOUNT |

+----+

| 7506 | LYNN | 35000 |

| 7521 | CYNTHIA | 100000 |

| 6734 | KEVIN | 65000 |

7666 | CHRIS | 56000 |

| 7369 | JON | 30000 |

+----+

5 rows in set (0.00 sec)

CONDITIONS:

1- PERFORM JOIN OPERATIONS ON EMPLOYEE ANDLOAN TABLE:

A- INNER JOIN:

mysql> SELECT EMPLOYEE.FIRSTNAME,employee.EMPLOYEE_ID, EMPLOYEE.SALARY, LOAN.AMOUNT FROM employee INNER JOIN LOAN ON employee.EMPLOYEE ID=loan.EMPLOYEE ID;

+----+

| FIRSTNAME | EMPLOYEE ID | SALARY | AMOUNT |

+----+

| JON | 7369 | 800 | 30000 |

| LYNN | 7506 | 2750 | 35000 |

| CYNTHIA | 7521 | 1250 | 100000 |

+----+

3 rows in set (0.01 sec)

B- LEFT JOIN:

mysql> SELECT EMPLOYEE.FIRSTNAME,employee.EMPLOYEE_ID, EMPLOYEE.SALARY, LOAN.AMOUNT FROM employee LEFT JOIN LOAN ON employee.EMPLOYEE_ID=loan.EMPLOYEE_ID;

+-----+
| FIRSTNAME | EMPLOYEE_ID | SALARY | AMOUNT |
+-----+
| JON | 7369 | 800 | 30000 |
| KEVIN | 7499 | 1600 | NULL |

| JEAN | 7505 | 2850 | NULL |

| LYNN | 7506 | 2750 | 35000 | | LESLIE | 7507 | 2200 | NULL |

| CYNTHIA | 7521 | 1250 | 100000 |

+----+

6 rows in set (0.00 sec)

C- RIGHT JOIN:

mysql> SELECT loan.FIRSTNAME,employee.EMPLOYEE_ID, employee.SALARY, loan.AMOUNT FROM employee RIGHT JOIN LOAN ON employee.EMPLOYEE_ID=loan.EMPLOYEE_ID;

+----+

| FIRSTNAME | EMPLOYEE ID | SALARY | AMOUNT |

+----+

| LYNN | 7506 | 2750 | 35000 |

| CYNTHIA | 7521 | 1250 | 100000 |

| KEVIN | NULL | NULL | 65000 |

| CHRIS | NULL | NULL | 56000 |

| JON | 7369 | 800 | 30000 |

+-----+

5 rows in set (0.00 sec)

2- PERFORM SET OPERATIONS ON LOAN AND EMPLOYEE DETAILS TABLE:

A- UNION

mysql> SELECT FIRSTNAME,EMPLOYEE_ID FROM employee UNION SELECT FIRSTNAME,EMPLOYEE_ID FROM loan ORDER BY FIRSTNAME;

+-----+
| FIRSTNAME | EMPLOYEE_ID |
+-----+
| CHRIS | 7666 |

| CYNTHIA | 7521 |

| JEAN | 7505 |

| JON | 7369 |

| KEVIN | 7499 |

| KEVIN | 6734 |

| LESLIE | 7507 |

| LYNN | 7506 |

+----+

8 rows in set (0.00 sec)

3- FIND OUT NO. OF EMPLOYEE WORKING IN SALES DEPARTMENT:

mysql> SELECT count(employee.EMPLOYEE_ID) AS TOTAL_SALES_PERSON FROM
employee INNER JOIN department ON
employee.DEPARTMENT_ID=department.DEPARTMENT_ID WHERE
department.NAME="SALE";

4- FIND OUT THE EMPLOYEES NOT WORKING IN DEPARTMENT 10 AND 30:

mysql> SELECT employee.EMPLOYEE_ID, employee.FIRSTNAME, employee.LASTNAME, department.DEPARTMENT_ID, department.NAME FROM employee INNER JOIN department ON employee.DEPARTMENT ID=department.DEPARTMENT ID WHERE department.DEPARTMENT ID!=10 AND department.DEPARTMENT ID!=30;

| EMPLOYEE_ID | FIRSTNAME | LASTNAME | + DEPARTMENT_ID + | NAME |
|------------------|-----------|-------------------|-----------------------------|---------------------------------------|
| 7499 7505 | KEVIN | ALLEN DOYLE BAKER | 20 20 | RESEARCH RESEARCH OPERATION |

3 rows in set (0.00 sec)

5- LIST OUT EMPLOYEE ID, LAST NAME IN DESCENDING ORDER BASED ON SALARY COLUMN:

mysql> SELECT EMPLOYEE_ID,LASTNAME,SALARY from employee order by SALARY desc;

| + | + | ++ |
|--|-------------------------------------|---|
| EMPLOYEE_ID | LASTNAME | SALARY |
| 7505 7506 7507 7507 7499 7521 7369 | DOYLE DENNIS BAKER ALLEN WARK SMITH | 2850 2750 2200 1600 1250 800 |
| T | | |

6 rows in set (0.00 sec)

6- HOW MANY EMPLOYEES WHO ARE WORKING IN DIFFERENT DEAPRTMENTS WISE IN THE **ORGANIZATION:**

mysql> SELECT DEPARTMENT_ID,COUNT(*) from employee group by DEPARTMENT_ID;

| + | |
|---------------|----------|
| DEPARTMENT_ID | COUNT(*) |
| 10 | 2 |
| 20 | 2 |
| 30 | 1 |
| 40 | 1 |
| + | ++ |

4 rows in set (0.00 sec)

7- LIST OUT DEPARTMENT ID HAVING ATLEAST 2 EMPLOYEES:

mysql> SELECT DEPARTMENT_ID,COUNT(*) from employee group by DEPARTMENT_ID HAVING COUNT(*)>=2;

| İ | DEPARTMENT_ID | COUNT(*) | l |
|---|---------------|----------|---|
| | 10 20 | 2 | ļ |
| • | | • | ł |

2 rows in set (0.00 sec)

8- DISPLAY THE EMPLOYEE WHO GOT MAXIMUM SALARY:

mysql> SELECT * from employee where SALARY=(SELECT MAX(SALARY) from +----------+ | EMPLOYEE ID | LASTNAME | FIRSTNAME | MIDDLENAME | JOB ID | MANAGER ID | HIREDATE | SALARY | DEPARTMENT_ID | -----| 7505 | DOYLE | JEAN | K | 671 | 7839 | 04-APR-85 | 2850 | 20 | +----------+ 1 row in set (0.00 sec)

9- UPDATE THE EMPLOYEE'S SALARY WHO ARE WORKING AS CLERK ON BASIS OF 10%:

mysql> UPDATE employee SET SALARY=SALARY+SALARY*10/100 WHERE

LESLIE

10 |

40 |

JOB_ID=(SELECT JOB_ID from job where FUNC='CLERK'); Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0 mysql> SELECT * FROM EMPLOYEE; -----+ | EMPLOYEE ID | LASTNAME | FIRSTNAME | MIDDLENAME | JOB ID | MANAGER ID | HIREDATE | SALARY | DEPARTMENT ID | -----| 7369 | SMITH | JON | Q 17-DEC-84 | 880 | 10 | | 667 | 7902 | 7499 | ALLEN | KEVIN | J | 670 | 7698 | 85 | 1600 | 20 | 20-FEB-85 | 1600 | 20 7505 | DOYLE | 671 | | JEAN | K 7839 20 04-APR-85 | 2850 | | 671 | 7506 | DENNIS LYNN | S 7839 30 | 15-MAY-85 | 2750 |

| D

+-----

| 671 |

| CYNTHIA | D | 670 | 7698 |

7839

6 rows in set (0.00 sec)

-----+

7507 | BAKER

7521 | WARK

10-JUN-85 | 2200 |

22-FEB-85 | 800 |

10-DELETE EMPLOYEE WHO ARE WORKING IN ACCOUNTING DEPARTMENT:

| <pre>mysql> DELETE FROM employee where DEPARTMENT_ID=(SELECT DEPARTMENT_ID from department where NAME='ACCOUNTING'); Query OK, 2 rows affected (0.10 sec) mysql> select * from employee; +</pre> | | | | |
|--|----|---------------|----------|----------------|
| | | | • | |
| EMPLOYEE_ID LASTNAME | | Ι ΜΤΟΟΙ ΕΝΔΜΕ | I JOB TD | I MANAGER TO I |
| HIREDATE SALARY DEPA | • | 111001110111 | 1 305_15 | 1840/02/1_15 |
| + | | + | .+ | ++- |
| · | | • | • | |
| 7499 ALLEN | | lп | 670 | 7698 |
| 20-FEB-85 1600 | • | 1 3 | 1 070 | 7030 |
| 7505 DOYLE | • | Ιν | 671 | 7839 |
| 04-APR-85 2850 | • | K | 1 0/1 | 7659 |
| 7506 DENNIS | | l c | 671 | 7839 |
| • | • | 3 | 0/1 | 7639 |
| 15-MAY-85 2750 | | l n | l 671 | l 7020 l |
| 7507 BAKER | • | ן ט | 671 | 7839 |
| 10-JUN-85 2200 | 40 | | | |
| + | | + | -+ | ++- |
| | + | | | |
| 4 rows in set (0.18 sec) | | | | |

11- FIND OUT DEPARTMENT WHO HAS NO EMPLOYEE:

mysql> SELECT * from department WHERE NOT EXISTS(SELECT EMPLOYEE_ID from employee where department.DEPARTMENT_ID=employee.DEPARTMENT_ID);

| DEPARTMENT_ID | NAME | LOCATION_ID |
|-------------------|------------|----------------|
| • | ACCOUNTING | 122 |
| 1 row in set (0.0 | • | r - |

12- LIST OUT DEPARTMENT WISE MAXIMUM, MINIMUM AND AVERAGE SALARY OF THE **EMPLOYEES:**

mysql> select DEPARTMENT_ID,COUNT(*),MAX(SALARY),MIN(SALARY),AVG(SALARY) from employee group by DEPARTMENT_ID;

| DEPARTMENT_ID | COUNT(*) | MAX(SALARY) | MIN(SALARY) | AVG(SALARY) |
|---------------|----------|-------------|-------------|-------------|
| 20 | 2 | 2850 | 1600 | 2225.0000 |
| 30 | 1 | 2750 | 2750 | 2750.0000 |
| 40 | 1 | 2200 | 2200 | 2200.0000 |

3 rows in set (0.01 sec)

13-DISPLAY EMPLOYEES WHO JOINED IN 1985:

mysql> select hiredate,count(*) from employee where hiredate>=('01-jan1985') and hiredate<=('31-dec-1985');
+-----+
| hiredate | count(*) |
+-----+
| 20-FEB-85 | 4 |
+-----+
1 row in set (0.00 sec)</pre>

14- DISPLAY THE EMPLOYEES WHO ARE WORKING IN NEW YORK:

mysql> SELECT * FROM employee WHERE DEPARTMENT_ID=(SELECT DEPARTMENT_ID
FROM department where LOCATION_ID= (SELECT LOCATION_ID from location where
REGINAL_GROUP='NEWYORK'));
Empty set (0.11 sec)

15-LIST OUT EMPLOYEES WITH THEIR DEPARTMENT NAMES:

mysql> SELECT FIRSTNAME,LASTNAME,employee.DEPARTMENT_ID,NAME,SALARY from employee ,department where employee.DEPARTMENT_ID=department.DEPARTMENT_ID;

| · · | _ | + | · L | L | L |
|---------------------------------------|--------------------------|----------------------------------|---|--|---|
| FIRSTNAME | | DEPARTMENT_ID | NAME | SALARY | |
| KEVIN JEAN LYNN LESLIE | ALLEN DOYLE DENNIS BAKER | 20 20 30 40 | RESEARCH RESEARCH SALE OPERATION | 1600 2850 2750 2200 | _ |

⁴ rows in set (0.00 sec)