Information Systems: Labwork 3

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Labwork 3

All info of all employees

```
1  SELECT * FROM EMPLOYEES;
```

Output:

```
1  ...
2  |  499996  |  1953−03−07  |  Zito       |  Baaz      |  M     |  1990−09−27  |
3  |  499997  |  1961−08−03  |  Berhard    |  Lenart    |  M     |  1986−04−21  |
4  |  499998  |  1956−09−05  |  Patricia   |  Breugel   |  M     |  1993−10−13  |
5  |  499999  |  1958−05−01  |  Sachin     |  Tsukuda   |  M     |  1997−11−30  |
6  +─────────+────────────+──────────+──────────────+────────+──────────────+
7  300024 rows in set (0.26 sec)
```

All info of all departments

```
1  SELECT * FROM DEPARTMENTS;
```

Output:

```
1   +──────────+────────────────────+
2   | dept_no  | dept_name          |
3   +──────────+────────────────────+
4   | d009     | Customer Service   |
5   | d005     | Development        |
6   | d002     | Finance            |
7   | d003     | Human Resources    |
8   | d001     | Marketing          |
9   | d004     | Production         |
10  | d006     | Quality Management |
11  | d008     | Research           |
12  | d007     | Sales              |
13  +──────────+────────────────────+
14  9 rows in set (0.00 sec)
```

Full names of all emplyees

```
1  SELECT CONCAT(FIRST_NAME, " ", LAST_NAME) AS FULL_NAME FROM EMPLOYEES;
```

Output:

```
1  ...
2  | Zito Baaz               |
3  | Berhard Lenart          |
4  | Patricia Breugel        |
5  | Sachin Tsukuda          |
6  +─────────────────────────+
7  300024 rows in set (0.21 sec)
```

Names of all departments

```
1  SELECT DEPT_NAME FROM DEPARTMENTS;
```

Output:

```
1  +────────────────────+
2  | DEPT_NAME          |
3  +────────────────────+
4  | Customer Service   |
5  | Development        |
6  | Finance            |
```

```
 7  | Human  Resources       |
 8  | Marketing              |
 9  | Production             |
10  | Quality  Management    |
11  | Research               |
12  | Sales                  |
13  +------------------------+
14  9 rows in set (0.00 sec)
```

Full names of employees working in "Sales" department

```
1  SELECT CONCAT(FIRST_NAME, " ", LAST_NAME) AS FULL_NAME FROM EMPLOYEES
2      JOIN DEPT_EMP ON EMPLOYEES.EMP_NO = DEPT_EMP.EMP_NO
3      JOIN DEPARTMENTS ON DEPARTMENTS.DEPT_NO = DEPT_EMP.DEPT_NO
4  WHERE DEPT_NAME = 'Sales';
```

Output:

```
1  ...
2  | Gino  Usery                      |
3  | Nathan  Ranta                    |
4  | Rimli  Dusink                    |
5  | Bangqing  Kleiser                |
6  +----------------------------------+
7  52245 rows in set (0.18 sec)
```

Full names of male employees working in "Finance" department

```
1  SELECT CONCAT(FIRST_NAME, " ", LAST_NAME) AS FULL_NAME FROM EMPLOYEES
2      JOIN DEPT_EMP ON EMPLOYEES.EMP_NO = DEPT_EMP.EMP_NO
3      JOIN DEPARTMENTS ON DEPARTMENTS.DEPT_NO = DEPT_EMP.DEPT_NO
4  WHERE DEPT_NAME = 'Finance' AND GENDER = "M";
```

Output:

```
1  ...
2  | Shaz  Bierbaum                   |
3  | Masali  Chorvat                  |
4  | Keiichiro  Lindqvist             |
5  | Patricia  Breugel                |
6  +----------------------------------+
7  10331 rows in set (0.04 sec)
```

Salaries of female employees working in "Marketing" department

```
1  SELECT SALARY FROM EMPLOYEES
2      JOIN SALARIES ON SALARIES.EMP_NO = EMPLOYEES.EMP_NO
3      JOIN DEPT_EMP ON EMPLOYEES.EMP_NO = DEPT_EMP.EMP_NO
4      JOIN DEPARTMENTS ON DEPARTMENTS.DEPT_NO = DEPT_EMP.DEPT_NO
5  WHERE DEPT_NAME = 'Marketing' AND GENDER = "F";
```

Output:

```
1  ...
2  |  73574 |
3  |  76708 |
4  |  79327 |
5  |  80389 |
6  +--------+
7  74996 rows in set (0.34 sec)
```

Full names of employees who have the same last name as their manager

```
1  SELECT CONCAT(EMPLOYEES.FIRST_NAME, " ", EMPLOYEES.LAST_NAME) AS FULL_NAME FROM EMPLOYEES
2      JOIN DEPT_EMP ON EMPLOYEES.EMP_NO = DEPT_EMP.EMP_NO
3      JOIN DEPT_MANAGER ON DEPT_EMP.DEPT_NO = DEPT_MANAGER.DEPT_NO
4      JOIN EMPLOYEES AS MANAGER ON DEPT_MANAGER.EMP_NO = MANAGER.EMP_NO
5  WHERE EMPLOYEES.LAST_NAME = MANAGER.LAST_NAME;
```

Output:

```
1  ...
2  | Shen  Weedman            |
3  | Dinkar  Weedman          |
4  | Jaques  Weedman          |
5  | Marc  Weedman            |
6  +─────────────────────────+
7  572 rows in set (1.31 sec)
```

Full names of managers who have been doing the job at least twice

```
1  SELECT CONCAT(FIRST_NAME, " ", LAST_NAME) AS FULL_NAME FROM EMPLOYEES
2      JOIN DEPT_MANAGER ON DEPT_MANAGER.EMP_NO = EMPLOYEES.EMP_NO
3  GROUP BY EMPLOYEES.EMP_NO HAVING COUNT(*) >= 2;
```

Output:

```
1  Empty set (0.01 sec)
```

Full names of employees who was paid more than $100000

```
1  SELECT DISTINCT CONCAT(FIRST_NAME, " ", LAST_NAME) AS FULL_NAME FROM EMPLOYEES
2      JOIN SALARIES ON SALARIES.EMP_NO = EMPLOYEES.EMP_NO
3  WHERE SALARY > 100000;
```

Output:

```
1  ...
2  | Guozhong  Felder          |
3  | Gino  Usery               |
4  | Nathan  Ranta             |
5  | Bangqing  Kleiser         |
6  +──────────────────────────+
7  18925 rows in set (9.46 sec)
```

Names of all departments that have employees paid more than $100000

```
1  SELECT DISTINCT DEPT_NAME FROM DEPARTMENTS
2      JOIN DEPT_EMP ON DEPARTMENTS.DEPT_NO = DEPT_EMP.DEPT_NO
3      JOIN SALARIES ON SALARIES.EMP_NO = DEPT_EMP.EMP_NO
4  WHERE SALARY > 100000;
```

Output:

```
1  +─────────────────────+
2  | DEPT_NAME           |
3  +─────────────────────+
4  | Customer  Service   |
5  | Development         |
6  | Finance             |
7  | Human  Resources    |
8  | Marketing           |
9  | Production          |
10 | Quality  Management |
11 | Research            |
12 | Sales               |
13 +─────────────────────+
14 9 rows in set (0.02 sec)
```