1. Tampilkan first name, last name, department number, dan department name untuk setiap karyawan.

   Jawab:

   SELECT emp.first_name,emp.last_name,dep.department_name,dep.department_id FROM employees emp INNER JOIN departments dep ON dep.department_id=emp.department_id;


```
mysql> SELECT emp.first_name,emp.last_name,dep.department_name,dep.department_id
 FROM employees emp INNER JOIN departments dep ON dep.department_id=emp.departme
nt_id;
+-------------+-------------+------------------+---------------+
| first_name  | last_name   | department_name  | department_id |
+-------------+-------------+------------------+---------------+
| Jennifer    | Whalen      | Administration   |            10 |
| Michael     | Hartstein   | Marketing        |            20 |
| Pat         | Fay         | Marketing        |            20 |
| Den         | Raphaely    | Purchasing       |            30 |
| Alexander   | Khoo        | Purchasing       |            30 |
| Shelli      | Baida       | Purchasing       |            30 |
| Sigal       | Tobias      | Purchasing       |            30 |
| Guy         | Himuro      | Purchasing       |            30 |
| Karen       | Colmenares  | Purchasing       |            30 |
| Susan       | Mavris      | Human Resources  |            40 |
| Matthew     | Weiss       | Shipping         |            50 |
| Adam        | Fripp       | Shipping         |            50 |
| Payam       | Kaufling    | Shipping         |            50 |
| Shanta      | Vollman     | Shipping         |            50 |
| Kevin       | Mourgos     | Shipping         |            50 |
| Julia       | Nayer       | Shipping         |            50 |
| Irene       | Mikkilineni | Shipping         |            50 |
| James       | Landry      | Shipping         |            50 |
| Steven      | Markle      | Shipping         |            50 |
| Laura       | Bissot      | Shipping         |            50 |
| Mozhe       | Atkinson    | Shipping         |            50 |
| James       | Marlow      | Shipping         |            50 |
```

2. Tampilkan first name, last name, department, city, dan state province untuk setiap karyawan.

   Jawab:

   SELECT emp.first_name,emp.last_name,dep.,detail.city,detail.state_province FROM employees emp INNER JOIN emp_details_view detail ON detail.employee_id=emp.employee_id INNER JOIN departments dep ON dep.department_id=emp.department_id;*

```
mysql> SELECT emp.first_name,emp.last_name,dep.*,detail.city,detail.state_provin
ce FROM employees emp INNER JOIN emp_details_view detail ON detail.employee_id=e
mp.employee_id INNER JOIN departments dep ON dep.department_id=emp.department_id
;
+--------------+-------------+---------------+-----------------+------------+---
----------+--------------------+---------------+
| first_name   | last_name   | department_id | department_name | manager_id | lo
cation_id | city               | state_province |
+--------------+-------------+---------------+-----------------+------------+---
----------+--------------------+---------------+
| Alexander    | Hunold      |            60 | IT              |        103 |
     1400 | Southlake          | Texas          |
| Bruce        | Ernst       |            60 | IT              |        103 |
     1400 | Southlake          | Texas          |
| David        | Austin      |            60 | IT              |        103 |
     1400 | Southlake          | Texas          |
| Valli        | Pataballa   |            60 | IT              |        103 |
     1400 | Southlake          | Texas          |
| Diana        | Lorentz     |            60 | IT              |        103 |
     1400 | Southlake          | Texas          |
| Matthew      | Weiss       |            50 | Shipping        |        121 |
     1500 | South San Francisco | California     |
| Adam         | Fripp       |            50 | Shipping        |        121 |
```

3. Tampilkan first name, last name, department number dan department name, semua
   karyawan yang bekerja di departments nomor 80 atau 40.
   Jawab:
   SELECT emp.first_name,emp.last_name,dep.department_id,dep.department_name FROM
   employees emp INNER JOIN departments dep ON dep.department_id=emp.department_id
   WHERE dep.department_id=80 OR dep.department_id=40;

```
mysql> SELECT emp.first_name,emp.last_name,dep.department_id,dep.department_name
 FROM employees emp INNER JOIN departments dep ON dep.department_id=emp.departme
nt_id WHERE dep.department_id=80 OR dep.department_id=40;
+-------------+-------------+---------------+-----------------+
| first_name  | last_name   | department_id | department_name |
+-------------+-------------+---------------+-----------------+
| Susan       | Mavris      |            40 | Human Resources |
| John        | Russell     |            80 | Sales           |
| Karen       | Partners    |            80 | Sales           |
| Alberto     | Errazuriz   |            80 | Sales           |
| Gerald      | Cambrault   |            80 | Sales           |
| Eleni       | Zlotkey     |            80 | Sales           |
| Peter       | Tucker      |            80 | Sales           |
| David       | Bernstein   |            80 | Sales           |
| Peter       | Hall        |            80 | Sales           |
| Christopher | Olsen       |            80 | Sales           |
| Nanette     | Cambrault   |            80 | Sales           |
| Oliver      | Tuvault     |            80 | Sales           |
| Janette     | King        |            80 | Sales           |
| Patrick     | Sully       |            80 | Sales           |
| Allan       | McEwen      |            80 | Sales           |
| Lindsey     | Smith       |            80 | Sales           |
| Louise      | Doran       |            80 | Sales           |
| Sarath      | Sewall      |            80 | Sales           |
```

4. Tampilkan first name, last name, department name, city, dan state province pada karyawan yang memiliki huruf Z pada first name nya.

Jawab:

SELECT emp.first_name, emp.last_name, dep.department_name, detail.city, detail.state_province FROM employees emp INNER JOIN emp_details_view detail ON detail.employee_id=emp.employee_id INNER JOIN departments dep ON dep.department_id=emp.department_id WHERE emp.first_name LIKE '%Z%';

```
mysql> SELECT emp.first_name,emp.last_name,dep.department_name,detail.city,detai
l.state_province FROM employees emp INNER JOIN emp_details_view detail ON detail
.employee_id=emp.employee_id INNER JOIN departments dep ON dep.department_id=emp
.department_id WHERE emp.first_name LIKE '%Z%';
+------------+------------+-----------------+---------------------+------------
---+
| first_name | last_name  | department_name | city                | state_provin
ce |
+------------+------------+-----------------+---------------------+------------
---+
| Mozhe      | Atkinson   | Shipping        | South San Francisco | California
   |
| Hazel      | Philtanker | Shipping        | South San Francisco | California
   |
| Elizabeth  | Bates      | Sales           | Oxford              | Oxford
   |
+------------+------------+-----------------+---------------------+------------
---+
3 rows in set (0,00 sec)
```

5. Tampilkan first name, last name, department id dan department name untuk semua nama department termasuk yang tidak meiliki karyawan.

Jawab:

SELECT emp.first_name,emp.last_name,dep.department_id,dep.department_name FROM employees emp RIGHT JOIN departments dep ON dep.department_id=emp.department_id;

```
mysql> SELECT emp.first_name,emp.last_name,dep.department_id,dep.department_name
 FROM employees emp RIGHT JOIN departments dep ON dep.department_id=emp.departme
nt_id;
+-------------+-------------+---------------+-----------------+
| first_name  | last_name   | department_id | department_name |
+-------------+-------------+---------------+-----------------+
| Jennifer    | Whalen      |            10 | Administration  |
| Michael     | Hartstein   |            20 | Marketing       |
| Pat         | Fay         |            20 | Marketing       |
| Den         | Raphaely    |            30 | Purchasing      |
| Alexander   | Khoo        |            30 | Purchasing      |
| Shelli      | Baida       |            30 | Purchasing      |
| Sigal       | Tobias      |            30 | Purchasing      |
| Guy         | Himuro      |            30 | Purchasing      |
| Karen       | Colmenares  |            30 | Purchasing      |
| Susan       | Mavris      |            40 | Human Resources |
| Matthew     | Weiss       |            50 | Shipping        |
| Adam        | Fripp       |            50 | Shipping        |
| Payam       | Kaufling    |            50 | Shipping        |
| Shanta      | Vollman     |            50 | Shipping        |
| Kevin       | Mourgos     |            50 | Shipping        |
| Julia       | Nayer       |            50 | Shipping        |
| Irene       | Mikkilineni |            50 | Shipping        |
| James       | Landry      |            50 | Shipping        |
| Steven      | Markle      |            50 | Shipping        |
| Laura       | Bissot      |            50 | Shipping        |
```

6. Tampilkan first name, last name dan salary karyawan yang memiliki salary kurang dari karyawan nomor 182.

Jawab:

SELECT emp.first_name,emp.last_name,emp.salary FROM employees emp WHERE emp.salary < (SELECT emp2.salary FROM employees emp2 WHERE emp2.employee_id=182);

```
mysql> SELECT emp.first_name,emp.last_name,emp.salary FROM employees emp WHERE e
mp.salary < (SELECT emp2.salary FROM employees emp2 WHERE emp2.employee_id=182);
+------------+-----------+---------+
| first_name | last_name | salary  |
+------------+-----------+---------+
| James      | Landry    | 2400.00 |
| Steven     | Markle    | 2200.00 |
| TJ         | Olson     | 2100.00 |
| Ki         | Gee       | 2400.00 |
| Hazel      | Philtanker| 2200.00 |
+------------+-----------+---------+
5 rows in set (0,00 sec)
```

7. Tampilkan first name seluruh karyawan dan first name dari setiap managernya.

Jawab:

SELECT manager_id,first_name FROM employees GROUP BY manager_id,first_name;

```
mysql> SELECT manager_id,first_name FROM employees GROUP BY manager_id,first_nam
e;
+------------+------------+
| manager_id | first_name |
+------------+------------+
|       NULL | Steven     |
|        100 | Adam       |
|        100 | Alberto    |
|        100 | Den        |
|        100 | Eleni      |
|        100 | Gerald     |
|        100 | John       |
|        100 | Karen      |
|        100 | Kevin      |
|        100 | Lex        |
|        100 | Matthew    |
```

8. Tampilkan department name, city, dan state province setiap department.

   Jawab:

   SELECT department_name,city,state_province FROM emp_details_view GROUP BY
   department_name,city,state_province;

```
mysql> SELECT department_name,city,state_province FROM emp_details_view GROUP BY
 department_name,city,state_province;
+-----------------+---------------------+----------------+
| department_name | city                | state_province |
+-----------------+---------------------+----------------+
| Accounting      | Seattle             | Washington     |
| Administration  | Seattle             | Washington     |
| Executive       | Seattle             | Washington     |
| Finance         | Seattle             | Washington     |
| Human Resources | London              | NULL           |
| IT              | Southlake           | Texas          |
| Marketing       | Toronto             | Ontario        |
| Public Relations| Munich              | Bavaria        |
| Purchasing      | Seattle             | Washington     |
| Sales           | Oxford              | Oxford         |
| Shipping        | South San Francisco | California     |
+-----------------+---------------------+----------------+
11 rows in set (0,00 sec)
```

9. Tampilkan first name, last name, department number dan nama department, untuk seluruh
   karyawan yang memiliki atau tidak memiliki department.

   Jawab:

   SELECT emp.first_name,emp.last_name,dep.department_id,dep.department_name FROM
   employees emp LEFT JOIN departments dep ON dep.department_id=emp.department_id

10. Tampilkan first name seluruh karyawan dan first name manager nya termasuk yang memiliki atau tidak memiliki manager.

Jawab:

SELECT mgr.first_name as manager,emp.first_name FROM employees emp LEFT JOIN employees mgr ON mgr.employee_id=emp.manager_id GROUP BY mgr.first_name,emp.first_name;

Informasi:

Hasil Screenshoot tidak semuanya utuh dari awal sampai akhir, dikarenakan datanya terlalu banyakm jadi saya screenshoot sebagian datanya saja.

Informasi:

Hasil Screenshoot tidak semuanya utuh dari awal sampai akhir, dikarenakan datanya terlalu banyakm jadi saya screenshoot sebagian datanya saja.