1.- Departamento de ventas.

Todos los registros de provincias con código US, CA o DE.

```
mysql> SELECT * FROM StatesProvice WHERE (CountryRegionCode = 'US') || (CountryRegionCode = 'CA') || (CountryRegionCode = 'DE');
+---------------+------------------+-------------------+---------------------+
| StateProviceID | StateProviceCode | CountryRegionCode | Name                |
+---------------+------------------+-------------------+---------------------+
|            51 | NT               | CA                | Northwest Territories |
|            52 | NV               | US                | Nevada              |
|            53 | NW               | DE                | Nordrhein-Westfalen |
|            54 | NY               | US                | New York            |
|            55 | OH               | US                | Ohio                |
|            56 | OK               | US                | Oklahoma            |
|            57 | ON               | CA                | Ontario             |
|            58 | OR               | US                | Oregon              |
|            59 | PA               | US                | Pennsylvania        |
|            60 | PE               | CA                | Prince Edward Island |
|            61 | PR               | US                | Puerto Rico         |
|            63 | QC               | CA                | Quebec              |
|            65 | RI               | US                | Rhode Island        |
|            67 | SC               | US                | South Carolina      |
|            68 | SD               | US                | South Dakota        |
|            69 | SK               | CA                | Saskatchewan        |
|            70 | SL               | DE                | Saarland            |
+---------------+------------------+-------------------+---------------------+
17 rows in set, 2 warnings (0.00 sec)
```

Nombre de provincias en orden alfabético.

```
mysql> SELECT `Name` FROM StatesProvice ORDER BY `Name` ASC;
+----------------------+
| Name                 |
+----------------------+
| Nevada               |
| New South Wales      |
| New York             |
| Nordrhein-Westfalen  |
| Northwest Territories |
| Ohio                 |
| Oklahoma             |
| Ontario              |
| Oregon               |
| Palau                |
| Pennsylvania         |
| Prince Edward Island |
| Puerto Rico          |
| Quebec               |
| Queensland           |
| Rhode Island         |
| Saarland             |
| Saskatchewan         |
| South Australia      |
| South Carolina       |
| South Dakota         |
+----------------------+
21 rows in set (0.00 sec)
```

Código de estado y de región de provincias que inician con N o S.

```
mysql> SELECT (StateProviceCode), (CountryRegionCode) FROM StatesProvice WHERE (`Name` LIKE 'N%') || (`Name` LIKE 'S%');
+-----------------+-------------------+
| StateProviceCode | CountryRegionCode |
+-----------------+-------------------+
| NSW             | AU                |
| NT              | CA                |
| NV              | US                |
| NW              | DE                |
| NY              | US                |
| SA              | AU                |
| SC              | US                |
| SD              | US                |
| SK              | CA                |
| SL              | DE                |
+-----------------+-------------------+
10 rows in set, 1 warning (0.00 sec)
```

2.- Departamento de recursos humanos.

Toda la información de personas en una sola columna, colocando el nombre completo empezando por apellidos ordenados de manera descendiente junto al tipo de persona.

```
mysql> SELECT CONCAT(MiddleName, ' ', LastName, ' ', FirstName, ' ', PersonType) AS Persons FROM Persons ORDER BY FirstName DESC;
+-----------------------+
| Persons               |
+-----------------------+
| A. Mensa-Annan Tete SP |
| E. Abbas Syed SP      |
| N. Agcaoili Samuel SC |
| L. Adina Ronald SC    |
| R. Ackerman Pilar SC  |
| J. Smith Margaret SC  |
| D. Abercrombie Kim SC |
| H. Goldberg Jossef EM |
| A. Williams Jill EM   |
| T. Adams Jay SC       |
| M. Galvin Janice EM   |
| T. Aguilar James SC   |
| T. Ting Hung-Fu EM    |
| A. Acevedo Humberto SC |
| V. Achong Gustavo SC  |
| A. Erickson Gail EM   |
| B. Adams Frances SC   |
| R. Abel Catherine SC  |
| J. Adams Carla SC     |
| S. Welcker Brian EM   |
+-----------------------+
20 rows in set (0.00 sec)
```

Apellidos maternos de longitud mayor a 5 caracteres.

```
mysql> SELECT LastName FROM Persons WHERE LENGTH(LastName) > 5;
+-------------+
| LastName    |
+-------------+
| Erickson    |
| Goldberg    |
| Galvin      |
| Williams    |
| Welcker     |
| Mensa-Annan |
| Achong      |
| Abercrombie |
| Acevedo     |
| Ackerman    |
| Agcaoili    |
| Aguilar     |
+-------------+
12 rows in set (0.00 sec)
```

Números de teléfono que tengan código de área con inicial 9 u 8.

```
mysql> SELECT PhoneNumber FROM PersonsPhone WHERE (PhoneNumber LIKE '9%') || (PhoneNumber LIKE '8%');
+--------------+
| PhoneNumber  |
+--------------+
| 819-555-0175 |
| 849-555-0139 |
| 815-555-0138 |
| 970-555-0138 |
| 913-555-0172 |
+--------------+
5 rows in set, 1 warning (0.01 sec)
```

Correos electrónicos ordenados de menor a mayor.

```
mysql> SELECT EmailAdress FROM PersonsEmailAdress ORDER BY EmailAdress ASC;
+------------------------------+
| EmailAdress                  |
+------------------------------+
| david0@adventure-works.com   |
| diane1@adventure-works.com   |
| dylan0@adventure-works.com   |
| gail0@adventure-works.com    |
| gigi0@adventure-works.com    |
| janice0@adventure-works.com  |
| john5@adventure-works.com    |
| jossef0@adventure-works.com  |
| ken0@adventure-works.com     |
| kevin0@adventure-works.com   |
| mary2@adventure-works.com    |
| michael6@adventure-works.com |
| michael8@adventure-works.com |
| ovidiu0@adventure-works.com  |
| rob0@adventure-works.com     |
| roberto0@adventure-works.com |
| sharon0@adventure-works.com  |
| terri0@adventure-works.com   |
| thierry0@adventure-works.com |
| wanida0@adventure-works.com  |
+------------------------------+
20 rows in set (0.01 sec)
```

Cuantos correos comienzan con d.

```
mysql> SELECT COUNT(EmailAdress) FROM PersonsEmailAdress WHERE EmailAdress LIKE 'd%';
+--------------------+
| COUNT(EmailAdress) |
+--------------------+
|                  3 |
+--------------------+
1 row in set (0.00 sec)
```

3.- Área de compras.

Ciudad, dirección y el código postal ordenando de menor a mayor los datos partiendo de la ciudad.

```
mysql> SELECT CONCAT(City, ' ', AdressLine1, ' ', PostalCode) AS Adress FROM PersonsAdress ORDER BY City ASC;
+--------------------------------------------------------+
| Adress                                                 |
+--------------------------------------------------------+
| Burnaby ##9900 2700 Production Way V5A4X1              |
| Colomiers #1, place de Brazaville 31770                |
| Courbevoie #1, allée des Princes 92400                 |
| Dunkerque #00, rue Saint-Lazare 59140                  |
| Les Ulis #084, boulevard du Montparnasse 91940         |
| Los Angeles #1 Smiling Tree Court 90012                |
| Miami #1 Corporate Center Drive 33127                  |
| Ottawa ##500-75 O´Connor Street K4B1S2                 |
| Paris #1, avenue des Champs-Elysées 75017              |
| Paris #1, place Beaubernard 75003                      |
| Paris #1, place Beaubernard 75009                      |
| Portland #1 Mt. Dell Drive 97205                       |
| Roncq #1, cours Mirabeau 59223                         |
| Saint-Denis #081, boulevard du Montparnasse 93400      |
| Saint-Denis #1, place Beaubernard 93400                |
| Seattle #081, boulevard du Montparnasse 98104          |
| Sèvres #1, boulevard Beau Marchais 92310               |
| Tremblay-en-France #1, place Beaubernard 93290         |
| Verrieres Le Buisson #035, boulevard du Montparnasse 91370 |
| Verrieres Le Buisson #02, place de Fontenoy 91370      |
+--------------------------------------------------------+
20 rows in set (0.01 sec)
```

Ciudades que comiencen con # o terminen con d.

```
mysql> SELECT AdressLine1 FROM PersonsAdress WHERE (AdressLine1 LIKE '#%') || (AdressLine1 LIKE '%d');
+---------------------------+
| AdressLine1               |
+---------------------------+
| #500-75 O´Connor Street   |
| #9900 2700 Production Way |
| 1, place Beaubernard      |
| 1, place Beaubernard      |
| 1, place Beaubernard      |
| 1, place Beaubernard      |
+---------------------------+
6 rows in set, 1 warning (0.00 sec)
```

Códigos postales cuya longitud sea menor a 6 caracteres.

```
mysql> SELECT PostalCode FROM PersonsAdress WHERE LENGTH(City) < 6;
+------------+
| PostalCode |
+------------+
| 33127      |
| 75017      |
| 59223      |
| 75003      |
| 75009      |
+------------+
5 rows in set (0.00 sec)
```

Cuantas direcciones pertenecen al área de boulevard du Montparnasse.

```
mysql> SELECT COUNT(AdressLine1) FROM PersonsAdress WHERE AdressLine1 LIKE '%boulevard du Montparnasse';
+--------------------+
| COUNT(AdressLine1) |
+--------------------+
|                  4 |
+--------------------+
1 row in set (0.00 sec)
```

4.- Departamento de personal.

Quitar el espacio de los códigos postales que tienen espacio en blanco.

```
mysql> UPDATE PersonsAdress SET PostalCode = REPLACE(PostalCode, ' ', '');
Query OK, 2 rows affected (0.00 sec)
Rows matched: 20  Changed: 2  Warnings: 0

mysql> SELECT * FROM PersonsAdress;
+----------+--------------------------------+----------------------+------------+---------------+------------------+
| AdressID | AdressLine1                    | City                 | PostalCode | StateProviceID | BusinessEntityID |
+----------+--------------------------------+----------------------+------------+---------------+------------------+
|        1 | #500-75 O´Connor Street        | Ottawa               | K4B1S2     |            51 |                1 |
|        2 | #9900 2700 Production Way       | Burnaby              | V5A4X1     |            52 |                2 |
|        3 | 00, rue Saint-Lazare           | Dunkerque            | 59140      |            53 |                3 |
|        4 | 02, place de Fontenoy          | Verrieres Le Buisson | 91370      |            54 |                4 |
|        5 | 035, boulevard du Montparnasse | Verrieres Le Buisson | 91370      |            55 |                5 |
|        6 | 081, boulevard du Montparnasse | Saint-Denis          | 93400      |            56 |                6 |
|        7 | 081, boulevard du Montparnasse | Seattle              | 98104      |            57 |                7 |
|        8 | 084, boulevard du Montparnasse | Les Ulis             | 91940      |            58 |                8 |
|        9 | 1 Corporate Center Drive       | Miami                | 33127      |            59 |                9 |
|       10 | 1 Mt. Dell Drive               | Portland             | 97205      |            60 |               10 |
|       11 | 1 Smiling Tree Court           | Los Angeles          | 90012      |            61 |               11 |
|       12 | 1, allée des Princes           | Courbevoie           | 92400      |            62 |               12 |
|       13 | 1, avenue des Champs-Elysées   | Paris                | 75017      |            63 |               13 |
|       14 | 1, boulevard Beau Marchais     | Sèvres               | 92310      |            64 |               14 |
|       15 | 1, cours Mirabeau              | Roncq                | 59223      |            65 |               15 |
|       16 | 1, place Beaubernard           | Paris                | 75003      |            66 |               16 |
|       17 | 1, place Beaubernard           | Paris                | 75009      |            67 |               17 |
|       18 | 1, place Beaubernard           | Saint-Denis          | 93400      |            68 |               18 |
|       19 | 1, place Beaubernard           | Tremblay-en-France   | 93290      |            69 |               19 |
|       20 | 1, place de Brazaville         | Colomiers            | 31770      |            70 |               20 |
+----------+--------------------------------+----------------------+------------+---------------+------------------+
20 rows in set (0.00 sec)
```

Agregar un # al inicio de la dirección de las personas.

```
mysql> UPDATE PersonsAdress SET AdressLine1 = CONCAT('#', AdressLine1) WHERE AdressLine1 NOT LIKE '#%';
Query OK, 18 rows affected (0.01 sec)
Rows matched: 18  Changed: 18  Warnings: 0

mysql> SELECT * FROM PersonsAdress;
+----------+--------------------------------+----------------------+------------+---------------+------------------+
| AdressID | AdressLine1                    | City                 | PostalCode | StateProviceID | BusinessEntityID |
+----------+--------------------------------+----------------------+------------+---------------+------------------+
|        1 | #500-75 O´Connor Street        | Ottawa               | K4B1S2     |            51 |                1 |
|        2 | #9900 2700 Production Way       | Burnaby              | V5A4X1     |            52 |                2 |
|        3 | #00, rue Saint-Lazare          | Dunkerque            | 59140      |            53 |                3 |
|        4 | #02, place de Fontenoy         | Verrieres Le Buisson | 91370      |            54 |                4 |
|        5 | #035, boulevard du Montparnasse| Verrieres Le Buisson | 91370      |            55 |                5 |
|        6 | #081, boulevard du Montparnasse| Saint-Denis          | 93400      |            56 |                6 |
|        7 | #081, boulevard du Montparnasse| Seattle              | 98104      |            57 |                7 |
|        8 | #084, boulevard du Montparnasse| Les Ulis             | 91940      |            58 |                8 |
|        9 | #1 Corporate Center Drive      | Miami                | 33127      |            59 |                9 |
|       10 | #1 Mt. Dell Drive              | Portland             | 97205      |            60 |               10 |
|       11 | #1 Smiling Tree Court          | Los Angeles          | 90012      |            61 |               11 |
|       12 | #1, allée des Princes          | Courbevoie           | 92400      |            62 |               12 |
|       13 | #1, avenue des Champs-Elysées  | Paris                | 75017      |            63 |               13 |
|       14 | #1, boulevard Beau Marchais    | Sèvres               | 92310      |            64 |               14 |
|       15 | #1, cours Mirabeau             | Roncq                | 59223      |            65 |               15 |
|       16 | #1, place Beaubernard          | Paris                | 75003      |            66 |               16 |
|       17 | #1, place Beaubernard          | Paris                | 75009      |            67 |               17 |
|       18 | #1, place Beaubernard          | Saint-Denis          | 93400      |            68 |               18 |
|       19 | #1, place Beaubernard          | Tremblay-en-France   | 93290      |            69 |               19 |
|       20 | #1, place de Brazaville        | Colomiers            | 31770      |            70 |               20 |
+----------+--------------------------------+----------------------+------------+---------------+------------------+
20 rows in set (0.00 sec)
```

Registrar en el sistema nuevos trabajadores.

```
mysql> INSERT INTO Persons(
    ->     PersonType,
    ->     FirstName,
    ->     MiddleName,
    ->     LastName
    -> )VALUES
    ->     ('EM', 'Skylar', 'L.', 'Galvin'),
    ->     ('EM', 'Melissa', 'C.', 'Cool'),
    ->     ('EM', 'Calvin', 'M.', 'O´Connor');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO PersonsEmailAdress(
    ->     EmailAdress,
    ->     BusinessEntityID
    -> )VALUES
    ->     ('skylar@adventure-works.com', '21'),
    ->     ('melissa@adventure-works.com', '22'),
    ->     ('calvin90@adventure-works.com', '23');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql>
mysql> INSERT INTO PersonsPhone(
    ->     PhoneNumber,
    ->     BusinessEntityID,
    ->     PhoneNumberTypeID
    -> )VALUES
    ->     ('920-343-1929', '21', '3'),
    ->     ('923-234-9283', '21', '1'),
    ->     ('934-999-1239', '22', '2'),
    ->     ('930-939-1923', '22', '3'),
    ->     ('283-990-1239', '23', '2');
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO PersonsAdress(
    ->     AdressLine1,
    ->     City,
    ->     PostalCode,
    ->     StateProviceID,
    ->     BusinessEntityID
    -> )VALUES
    ->     ('#943 Lincon Street', 'Ottawa', '92303', '51', '21'),
    ->     ('#2983-923 Saint-Square', 'Roma', 'RM9384-12', '71', '22'),
    ->     ('#2930-23 avenue des Fontenoy Princess', 'Paris', '92392', '63', '23');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql>
mysql> SELECT * FROM Persons;
+------------------+------------+-----------+------------+------------+
| BusinessEntityID | PersonType | FirstName | MiddleName | LastName   |
+------------------+------------+-----------+------------+------------+
|                1 | EM         | Gail      | A.         | Erickson   |
|                2 | EM         | Jossef    | H.         | Goldberg   |
|                3 | EM         | Janice    | M.         | Galvin     |
|                4 | EM         | Jill      | A.         | Williams   |
|                5 | EM         | Hung-Fu   | T.         | Ting       |
|                6 | EM         | Brian     | S.         | Welcker    |
|                7 | SP         | Tete      | A.         | Mensa-Annan|
|                8 | SP         | Syed      | E.         | Abbas      |
|                9 | SC         | Gustavo   | V.         | Achong     |
|               10 | SC         | Catherine | R.         | Abel       |
|               11 | SC         | Kim       | D.         | Abercrombie|
|               12 | SC         | Humberto  | A.         | Acevedo    |
|               13 | SC         | Pilar     | R.         | Ackerman   |
|               14 | SC         | Frances   | B.         | Adams      |
|               15 | SC         | Margaret  | J.         | Smith      |
|               16 | SC         | Carla     | J.         | Adams      |
|               17 | SC         | Jay       | T.         | Adams      |
|               18 | SC         | Ronald    | L.         | Adina      |
|               19 | SC         | Samuel    | N.         | Agcaoili   |
|               20 | SC         | James     | T.         | Aguilar    |
|               21 | EM         | Skylar    | L.         | Galvin     |
|               22 | EM         | Melissa   | C.         | Cool       |
|               23 | EM         | Calvin    | M.         | O´Connor   |
+------------------+------------+-----------+------------+------------+
23 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM PersonsEmailAdress;
+---------------+-------------------------------+------------------+
| EmailAdressID | EmailAdress                   | BusinessEntityID |
+---------------+-------------------------------+------------------+
|             1 | ken0@adventure-works.com      |                1 |
|             2 | terri0@adventure-works.com    |                2 |
|             3 | roberto0@adventure-works.com  |                3 |
|             4 | rob0@adventure-works.com      |                4 |
|             5 | gail0@adventure-works.com     |                5 |
|             6 | jossef0@adventure-works.com   |                6 |
|             7 | dylan0@adventure-works.com    |                7 |
|             8 | diane1@adventure-works.com    |                8 |
|             9 | gigi0@adventure-works.com     |                9 |
|            10 | michael6@adventure-works.com  |               10 |
|            11 | ovidiu0@adventure-works.com   |               11 |
|            12 | thierry0@adventure-works.com  |               12 |
|            13 | janice0@adventure-works.com   |               13 |
|            14 | michael8@adventure-works.com  |               14 |
|            15 | sharon0@adventure-works.com   |               15 |
|            16 | david0@adventure-works.com    |               16 |
|            17 | kevin0@adventure-works.com    |               17 |
|            18 | john5@adventure-works.com     |               18 |
|            19 | mary2@adventure-works.com     |               19 |
|            20 | wanida0@adventure-works.com   |               20 |
|            21 | skylar@adventure-works.com    |               21 |
|            22 | melissa@adventure-works.com   |               22 |
|            23 | calvin90@adventure-works.com  |               23 |
+---------------+-------------------------------+------------------+
23 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM PersonsPhone;
+---------------+--------------+------------------+-------------------+
| PersonsPhoneID | PhoneNumber  | BusinessEntityID | PhoneNumberTypeID |
+---------------+--------------+------------------+-------------------+
|             1 | 697-555-0142 |                1 |              NULL |
|             2 | 819-555-0175 |                2 |              NULL |
|             3 | 212-555-0187 |                3 |              NULL |
|             4 | 612-555-0100 |                4 |              NULL |
|             5 | 849-555-0139 |                5 |              NULL |
|             6 | 122-555-0189 |                6 |              NULL |
|             7 | 181-555-0156 |                7 |              NULL |
|             8 | 815-555-0138 |                8 |              NULL |
|             9 | 185-555-0186 |                9 |              NULL |
|            10 | 330-555-2568 |               10 |              NULL |
|            11 | 719-555-0181 |               11 |              NULL |
|            12 | 168-555-0183 |               12 |              NULL |
|            13 | 473-555-0117 |               13 |              NULL |
|            14 | 465-555-0156 |               14 |              NULL |
|            15 | 970-555-0138 |               15 |              NULL |
|            16 | 913-555-0172 |               16 |              NULL |
|            17 | 150-555-0189 |               17 |              NULL |
|            18 | 486-555-0150 |               18 |              NULL |
|            19 | 124-555-0114 |               19 |              NULL |
|            20 | 708-555-0141 |               20 |              NULL |
|            21 | 920-343-1929 |               21 |                 3 |
|            22 | 923-234-9283 |               21 |                 1 |
|            23 | 934-999-1239 |               22 |                 2 |
|            24 | 930-939-1923 |               22 |                 3 |
|            25 | 283-990-1239 |               23 |                 2 |
+---------------+--------------+------------------+-------------------+
25 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM PersonsAdress;
+----------+-------------------------------------+---------------------+------------+----------------+------------------+
| AdressID | AdressLine1                         | City                | PostalCode | StateProviceID | BusinessEntityID |
+----------+-------------------------------------+---------------------+------------+----------------+------------------+
|        1 | #500-75 O´Connor Street              | Ottawa              | K4B1S2     |             51 |                1 |
|        2 | #9900 2700 Production Way             | Burnaby             | V5A4X1     |             52 |                2 |
|        3 | #00, rue Saint-Lazare                | Dunkerque           | 59140      |             53 |                3 |
|        4 | #02, place de Fontenoy               | Verrieres Le Buisson | 91370      |             54 |                4 |
|        5 | #035, boulevard du Montparnasse      | Verrieres Le Buisson | 91370      |             55 |                5 |
|        6 | #081, boulevard du Montparnasse      | Saint-Denis         | 93400      |             56 |                6 |
|        7 | #081, boulevard du Montparnasse      | Seattle             | 98104      |             57 |                7 |
|        8 | #084, boulevard du Montparnasse      | Les Ulis            | 91940      |             58 |                8 |
|        9 | #1 Corporate Center Drive            | Miami               | 33127      |             59 |                9 |
|       10 | #1 Mt. Dell Drive                    | Portland            | 97205      |             60 |               10 |
|       11 | #1 Smiling Tree Court                | Los Angeles         | 90012      |             61 |               11 |
|       12 | #1, allée des Princes                | Courbevoie          | 92400      |             62 |               12 |
|       13 | #1, avenue des Champs-Elysées        | Paris               | 75017      |             63 |               13 |
|       14 | #1, boulevard Beau Marchais          | Sèvres              | 92310      |             64 |               14 |
|       15 | #1, cours Mirabeau                   | Roncq               | 59223      |             65 |               15 |
|       16 | #1, place Beaubernard                | Paris               | 75003      |             66 |               16 |
|       17 | #1, place Beaubernard                | Paris               | 75009      |             67 |               17 |
|       18 | #1, place Beaubernard                | Saint-Denis         | 93400      |             68 |               18 |
|       19 | #1, place Beaubernard                | Tremblay-en-France  | 93290      |             69 |               19 |
|       20 | #1, place de Brazaville              | Colomiers           | 31770      |             70 |               20 |
|       21 | #943 Lincon Street                   | Ottawa              | 92303      |             51 |               21 |
|       22 | #2983-923 Saint-Square               | Roma                | RM9384-12  |             71 |               22 |
|       23 | #2930-23 avenue des Fontenoy Princess | Paris               | 92392      |             63 |               23 |
+----------+-------------------------------------+---------------------+------------+----------------+------------------+
23 rows in set (0.00 sec)
```