

Nama : Levi Rizki Saputra  
Kelas : IF-D  
NIM : 123230127

1. Tampilkan employee yang memiliki nama depan gerard dan memiliki job sebagai Sales Rep

```
SELECT * FROM employees WHERE  
    firstName = "gerard" AND  
    jobTitle = "Sales Rep";
```

| employeeNumber | lastName  | firstName | extension | email                          | officeCode | reportsTo | jobTitle  |
|----------------|-----------|-----------|-----------|--------------------------------|------------|-----------|-----------|
| 1370           | Hernandez | Gerard    | x2028     | ghernande@classicmodelcars.com | 4          | 1102      | Sales Rep |

1 row in set (0,00 sec)



```
mysql> SELECT * FROM employees WHERE firstName = "gerard" AND jobTitle = "Sales Rep";  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| 1370 | Hernandez | Gerard | x2028 | ghernande@classicmodelcars.com | 4 | 1102 | Sales Rep |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
1 row in set (0,00 sec)  
  
mysql>
```

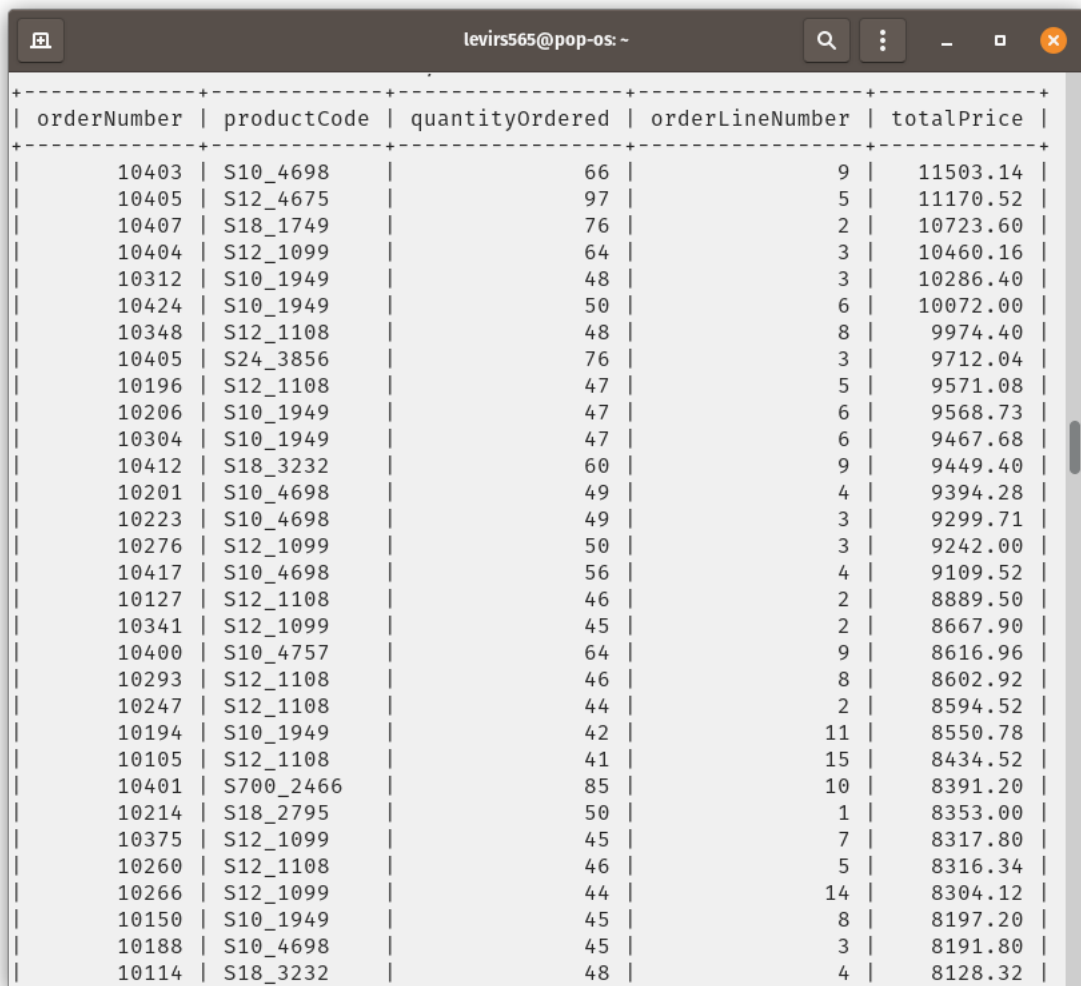
2. Tampilkan order number, product code, jumlah order, order line number, beserta total harganya diurutkan berdasarkan total harganya besar ke kecil

Relasi antara orders dan orderdetails adalah one (orders) to many (orderdetails).

```
SELECT  
    Base.orderNumber,  
    Detail.productCode,  
    Detail.quantityOrdered,  
    Detail.orderLineNumber,  
    Detail.priceEach * Detail.quantityOrdered AS totalPrice  
FROM orders Base  
    INNER JOIN orderdetails AS Detail  
    ON Detail.orderNumber = Base.orderNumber  
ORDER BY totalPrice DESC
```

| orderNumber | productCode | quantityOrdered | orderLineNumber | totalPrice |
|-------------|-------------|-----------------|-----------------|------------|
| 10403       | S10_4698    | 66              | 9               | 11503.14   |
| 10405       | S12_4675    | 97              | 5               | 11170.52   |
| 10407       | S18_1749    | 76              | 2               | 10723.60   |
| 10404       | S12_1099    | 64              | 3               | 10460.16   |
| 10312       | S10_1949    | 48              | 3               | 10286.40   |
| 10424       | S10_1949    | 50              | 6               | 10072.00   |
| 10348       | S12_1108    | 48              | 8               | 9974.40    |
| 10405       | S24_3856    | 76              | 3               | 9712.04    |
| 10196       | S12_1108    | 47              | 5               | 9571.08    |
| 10206       | S10_1949    | 47              | 6               | 9568.73    |
| 10304       | S10_1949    | 47              | 6               | 9467.68    |
| 10412       | S18_3232    | 60              | 9               | 9449.40    |

|       |           |    |    |         |
|-------|-----------|----|----|---------|
| 10201 | S10_4698  | 49 | 4  | 9394.28 |
| 10223 | S10_4698  | 49 | 3  | 9299.71 |
| 10276 | S12_1099  | 50 | 3  | 9242.00 |
| 10417 | S10_4698  | 56 | 4  | 9109.52 |
| 10127 | S12_1108  | 46 | 2  | 8889.50 |
| 10341 | S12_1099  | 45 | 2  | 8667.90 |
| 10400 | S10_4757  | 64 | 9  | 8616.96 |
| 10293 | S12_1108  | 46 | 8  | 8602.92 |
| 10247 | S12_1108  | 44 | 2  | 8594.52 |
| 10194 | S10_1949  | 42 | 11 | 8550.78 |
| 10105 | S12_1108  | 41 | 15 | 8434.52 |
| 10401 | S700_2466 | 85 | 10 | 8391.20 |
| 10214 | S18_2795  | 50 | 1  | 8353.00 |
| 10375 | S12_1099  | 45 | 7  | 8317.80 |
| 10260 | S12_1108  | 46 | 5  | 8316.34 |
| 10266 | S12_1099  | 44 | 14 | 8304.12 |
| 10150 | S10_1949  | 45 | 8  | 8197.20 |
| 10188 | S10_4698  | 45 | 3  | 8191.80 |
| 10114 | S18_3232  | 48 | 4  | 8128.32 |



The screenshot shows a terminal window titled "levirs565@pop-os: ~" with a search bar and window controls. The terminal displays a table with the following columns: orderNumber, productCode, quantityOrdered, orderLineNumber, and totalPrice. The data is sorted by orderNumber in ascending order.

| orderNumber | productCode | quantityOrdered | orderLineNumber | totalPrice |
|-------------|-------------|-----------------|-----------------|------------|
| 10403       | S10_4698    | 66              | 9               | 11503.14   |
| 10405       | S12_4675    | 97              | 5               | 11170.52   |
| 10407       | S18_1749    | 76              | 2               | 10723.60   |
| 10404       | S12_1099    | 64              | 3               | 10460.16   |
| 10312       | S10_1949    | 48              | 3               | 10286.40   |
| 10424       | S10_1949    | 50              | 6               | 10072.00   |
| 10348       | S12_1108    | 48              | 8               | 9974.40    |
| 10405       | S24_3856    | 76              | 3               | 9712.04    |
| 10196       | S12_1108    | 47              | 5               | 9571.08    |
| 10206       | S10_1949    | 47              | 6               | 9568.73    |
| 10304       | S10_1949    | 47              | 6               | 9467.68    |
| 10412       | S18_3232    | 60              | 9               | 9449.40    |
| 10201       | S10_4698    | 49              | 4               | 9394.28    |
| 10223       | S10_4698    | 49              | 3               | 9299.71    |
| 10276       | S12_1099    | 50              | 3               | 9242.00    |
| 10417       | S10_4698    | 56              | 4               | 9109.52    |
| 10127       | S12_1108    | 46              | 2               | 8889.50    |
| 10341       | S12_1099    | 45              | 2               | 8667.90    |
| 10400       | S10_4757    | 64              | 9               | 8616.96    |
| 10293       | S12_1108    | 46              | 8               | 8602.92    |
| 10247       | S12_1108    | 44              | 2               | 8594.52    |
| 10194       | S10_1949    | 42              | 11              | 8550.78    |
| 10105       | S12_1108    | 41              | 15              | 8434.52    |
| 10401       | S700_2466   | 85              | 10              | 8391.20    |
| 10214       | S18_2795    | 50              | 1               | 8353.00    |
| 10375       | S12_1099    | 45              | 7               | 8317.80    |
| 10260       | S12_1108    | 46              | 5               | 8316.34    |
| 10266       | S12_1099    | 44              | 14              | 8304.12    |
| 10150       | S10_1949    | 45              | 8               | 8197.20    |
| 10188       | S10_4698    | 45              | 3               | 8191.80    |
| 10114       | S18_3232    | 48              | 4               | 8128.32    |

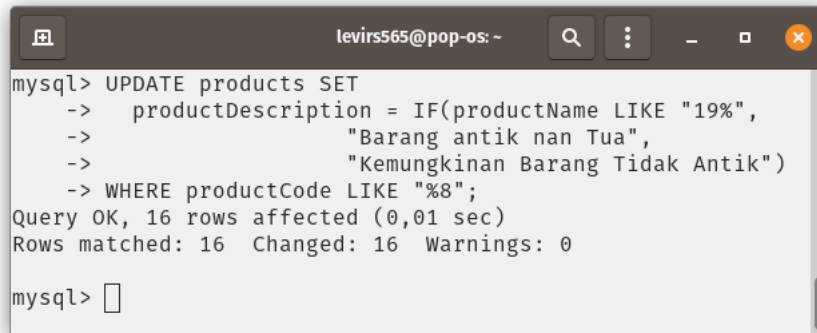
- Update deskripsi product dari tabel product yang product codenya diakhir dengan angka 8. (Text update nya dibebaskan)

```

UPDATE products SET
  productDescription = IF(productName LIKE "19%",
    "Barang antik nan Tua",
    "Kemungkinan Barang Tidak Antik")
WHERE productCode LIKE "%8";

```

Query OK, 16 rows affected (0,01 sec)  
 Rows matched: 16 Changed: 16 Warnings: 0



```

levirs565@pop-os: ~
mysql> UPDATE products SET
->   productDescription = IF(productName LIKE "19%",
->     "Barang antik nan Tua",
->     "Kemungkinan Barang Tidak Antik")
-> WHERE productCode LIKE "%8";
Query OK, 16 rows affected (0,01 sec)
Rows matched: 16 Changed: 16 Warnings: 0

mysql> 

```

4. Tampilkan nama employee dengan column Full Name yang diawali dengan huruf v atau diakhiri dengan huruf i yang memiliki job sebagai Sales Rep (Gunakan WHERE)

```

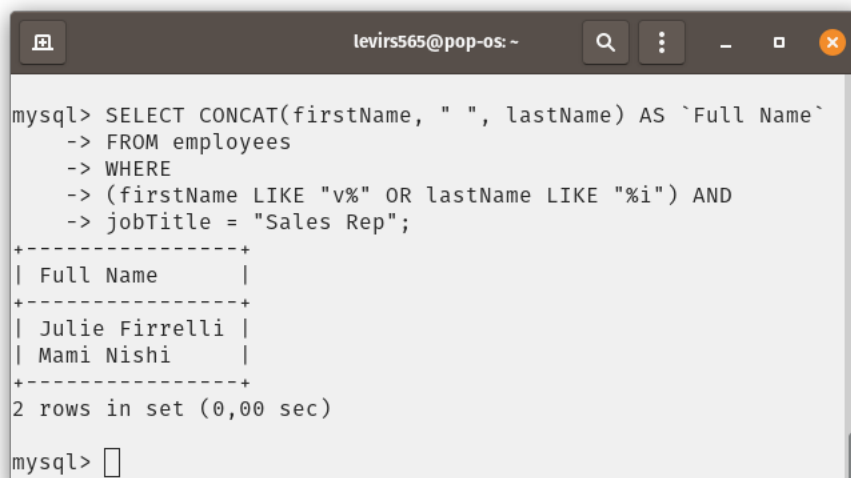
SELECT CONCAT(firstName, " ", lastName) AS `Full Name`
FROM employees
WHERE
  (firstName LIKE "v%" OR lastName LIKE "%i") AND
  jobTitle = "Sales Rep";

```

```

+-----+
| Full Name |
+-----+
| Julie Firrelli |
| Mami Nishi |
+-----+
2 rows in set (0,00 sec)

```



```

levirs565@pop-os: ~
mysql> SELECT CONCAT(firstName, " ", lastName) AS `Full Name`
-> FROM employees
-> WHERE
->   (firstName LIKE "v%" OR lastName LIKE "%i") AND
->   jobTitle = "Sales Rep";
+-----+
| Full Name |
+-----+
| Julie Firrelli |
| Mami Nishi |
+-----+
2 rows in set (0,00 sec)

mysql> 

```

5. Sama seperti no 4 tetapi gunakan IN

```
SELECT CONCAT(firstName, " ", lastName) AS `Full Name`
FROM employees
WHERE CONCAT(firstName, " ", lastName) IN ("Julie Firrelli", "Mami Nishi");
```

```
+-----+
| Full Name |
+-----+
| Julie Firrelli |
| Mami Nishi |
+-----+
2 rows in set (0,00 sec)
```



```
mysql> SELECT CONCAT(firstName, " ", lastName) AS `Full Name`
-> FROM employees
-> WHERE CONCAT(firstName, " ", lastName) IN ("Julie Firrelli", "Mami Nishi")
-> ;
+-----+
| Full Name |
+-----+
| Julie Firrelli |
| Mami Nishi |
+-----+
2 rows in set (0,00 sec)

mysql> 
```

6. Tampilkan nama customer dan jumlah order as totalOrdered berdasarkan customer id dengan ketentuan total jumlah order tersebut lebih dari 100

```
SELECT C.customerName, SUM(D.quantityOrdered) AS totalOrdered
FROM customers C
LEFT JOIN orders O
ON O.customerNumber = C.customerNumber
LEFT JOIN orderdetails D
ON O.orderNumber = D.orderNumber
GROUP BY C.customerNumber
HAVING totalOrdered > 100;
```

```
+-----+-----+
| customerName | totalOrdered |
+-----+-----+
| Atelier graphique | 270 |
| Signal Gift Stores | 929 |
| Australian Collectors, Co. | 1926 |
| La Rochelle Gifts | 1832 |
| Baane Mini Imports | 1082 |
| Mini Gifts Distributors Ltd. | 6366 |
| Blauer See Auto, Co. | 811 |
| Mini Wheels Co. | 692 |
| Land of Toys Inc. | 1631 |
| Euro+ Shopping Channel | 9327 |
+-----+-----+
```

|                            |      |
|----------------------------|------|
| Volvo Model Replicas, Co   | 647  |
| Danish Wholesale Imports   | 1315 |
| Saveley & Henriot, Co.     | 1428 |
| Dragon Souvenirs, Ltd.     | 1524 |
| Muscle Machine Inc         | 1775 |
| Diecast Classics Inc.      | 1111 |
| Technics Stores Inc.       | 1179 |
| Handji Gifts& Co           | 1236 |
| Herkku Gifts               | 973  |
| Daedalus Designs Imports   | 699  |
| La Corne D'abondance, Co.  | 836  |
| Cambridge Collectables Co. | 357  |

```

mysql> SELECT C.customerName, SUM(D.quantityOrdered) AS totalOrdered
-> FROM customers C
-> LEFT JOIN orders O
-> ON O.customerNumber = C.customerNumber
-> LEFT JOIN orderdetails D
-> ON O.orderNumber = D.orderNumber
-> GROUP BY C.customerNumber
-> HAVING totalOrdered > 100;
+-----+-----+
| customerName | totalOrdered |
+-----+-----+
| Atelier graphique | 270 |
| Signal Gift Stores | 929 |
| Australian Collectors, Co. | 1926 |
| La Rochelle Gifts | 1832 |
| Baane Mini Imports | 1082 |
| Mini Gifts Distributors Ltd. | 6366 |
| Blauer See Auto, Co. | 811 |
| Mini Wheels Co. | 692 |
| Land of Toys Inc. | 1631 |
| Euro+ Shopping Channel | 9327 |
| Volvo Model Replicas, Co | 647 |
| Danish Wholesale Imports | 1315 |
| Saveley & Henriot, Co. | 1428 |
| Dragon Souvenirs, Ltd. | 1524 |
| Muscle Machine Inc | 1775 |
| Diecast Classics Inc. | 1111 |
| Technics Stores Inc. | 1179 |
| Handji Gifts& Co | 1236 |
| Herkku Gifts | 973 |
| Daedalus Designs Imports | 699 |
| La Corne D'abondance, Co. | 836 |
| Cambridge Collectables Co. | 357 |

```

7. Tampilkan nomor order, nama produk yang dibeli, jumlah order as quantity ordered, total pendapatan product keseluruhan as pendapatan product, serta tanggal order dengan ketentuan total harga pembeliannya diantara 500000 dan 800000 berdasarkan nomor order

```

SELECT
    O.orderNumber,
    GROUP_CONCAT(P.productName),
    SUM(D.quantityOrdered) as `quantity ordered`,
    SUM((D.priceEach - P.buyPrice) * D.quantityOrdered * 1000) as `pendapatan product`,
    O.orderDate

```

```

FROM orders O
  INNER JOIN orderdetails D
    ON O.orderNumber = D.orderNumber
  INNER JOIN products P
    ON D.productCode = P.productCode
GROUP BY O.orderNumber
  HAVING SUM(D.quantityOrdered * P.buyPrice * 1000) BETWEEN 500000 AND 800000

```

| orderNumber | GROUP_CONCAT(P.productName)            | quantity ordered | pendapatan product | orderDate  |
|-------------|--|------------------|--------------------|------------|
| 10116       | 1950's Chicago Surface Lines Streetcar | 27               | 906.12             | 2003-04-11 |
| 10144       | 1928 Ford Phaeton Deluxe               | 20               | 467.80             | 2003-08-13 |

```

mysql> SELECT
-> O.orderNumber,
-> GROUP_CONCAT(P.productName),
-> SUM(D.quantityOrdered) as `quantity ordered`,
-> SUM((D.priceEach - P.buyPrice) * D.quantityOrdered * 1000) as `pendapatan product`,
-> O.orderDate
-> FROM orders O
->   INNER JOIN orderdetails D
->     ON O.orderNumber = D.orderNumber
->   INNER JOIN products P
->     ON D.productCode = P.productCode
-> GROUP BY O.orderNumber
->   HAVING SUM(D.quantityOrdered * P.buyPrice * 1000) BETWEEN 500000 AND 800000;

```

| orderNumber | GROUP_CONCAT(P.productName)            | quantity ordered | pendapatan product | orderDate  |
|-------------|--|------------------|--------------------|------------|
| 10116       | 1950's Chicago Surface Lines Streetcar | 27               | 906120.00          | 2003-04-11 |
| 10144       | 1928 Ford Phaeton Deluxe               | 20               | 467800.00          | 2003-08-13 |

```

2 rows in set (0,03 sec)

mysql>

```

8. Berikan 1 perintah dan code dengan menerapkan materi sql lanjutan inner join, dan menggunakan materi perintah mysql.

Perintah untuk menemukan customer yang telah melakukan transaksi di toko lebih besar dari 40.000.000 dan tinggal di "San Fransisco" atau "Barcelone" atau "Boston" dan namanya terdapat huruf "m".

```

SELECT
  C.customerNumber,
  C.customerName,
  C.phone,
  SUM(P.amount) * 1000 AS totalSpent
FROM customers C
  JOIN payments P
    ON P.customerNumber = C.customerNumber
WHERE
  C.city IN ("San Francisco", "Barcelona", "Boston") AND
  C.customerName LIKE "%m%"
GROUP BY C.customerNumber
  HAVING totalSpent > 40000000;

```

| customerNumber | customerName    | phone      | totalSpent  |
|----------------|-----------------|------------|-------------|
| 129            | Mini Wheels Co. | 6505555787 | 66710560.00 |

```
levirs565@pop-os: ~  
mysql> SELECT  
-> C.customerNumber,  
-> C.customerName,  
-> C.phone,  
-> SUM(P.amount) * 1000 AS totalSpent  
-> FROM customers C  
-> JOIN payments P  
-> ON P.customerNumber = C.customerNumber  
-> WHERE  
-> C.city IN ("San Francisco", "Barcelona", "Boston") AND  
-> C.customerName LIKE "%m%"  
-> GROUP BY C.customerNumber  
-> HAVING totalSpent > 40000000;  
+-----+-----+-----+-----+  
| customerNumber | customerName | phone | totalSpent |  
+-----+-----+-----+-----+  
| 129 | Mini Wheels Co. | 6505555787 | 66710560.00 |  
+-----+-----+-----+-----+  
1 row in set (0,01 sec)  
  
mysql> 
```