NIM : <isi dengan NIM>

Nama: <isi dengan nama lengkap>

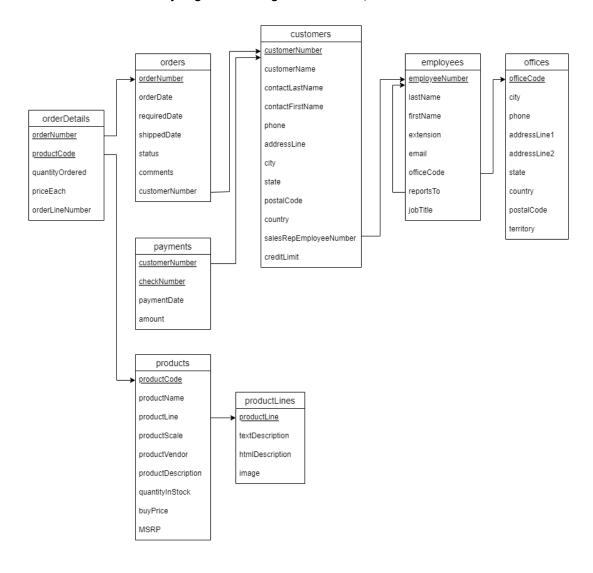
Kelas: <contoh: K0>

Pembahasan Praktikum 2 IF2240 Basis Data

Materi: SQL (Part 2 & Part 3)

I. Skema Basis Data

Diberikan skema basis data sebagai <u>berikut</u>, yang tersimpan dalam database prak2. Database ini memiliki isi yang sama dengan database prak1.



II. Soal

1. Buatlah query yang menampilkan 6 negara dengan pelanggan terbanyak terurut menurun berdasarkan jumlah pelanggan.

(clue: Gunakan LIMIT untuk membatasi jumlah rows yang ditampilkan)

```
QUERY:
SELECT country, COUNT(customerNumber)
FROM customers
GROUP BY country
ORDER BY count(customerNumber) DESC
LIMIT 6;
SCREENSHOT:
 MariaDB [prak1]> select country, count(customerNumber) from customers group by country ord
 er by count(customerNumber) desc limit 6;
            | count(customerNumber) |
   country
   USA
   Germany
                              13
                              12
   France
   Spain
   Australia
   rows in set (0.000 sec)
```

2. Tuliskan query yang memberikan nama customer, nama lengkap kontak pelanggan tersebut, negara, tanggal, serta jumlah pembayaran (amount) yang dilakukan pada April 2005!

(clue: gunakan CONCAT() untuk menggabungkan string, YEAR() dan MONTH() untuk mengambil tahun dan bulan dari tanggal)

```
QUERY:
SELECT
    customerName,
    CONCAT(contactFirstName, ' ', contactLastName) AS contactName,
    country,
    paymentDate,
    amount
FROM
    customers natural inner join payments
WHERE
    YEAR(paymentDate) = 2005 and MONTH(paymentDate) = 4
SCREENSHOT:
```

3. Buatlah query untuk menampilkan nama customer yang mengandung nama "Mini" beserta jumlah dari seluruh produk yang pernah mereka pesan. Urutkan berdasarkan customer dengan jumlah pemesanan produk terbanyak.

```
QUERY:
SELECT customerName, SUM(quantityOrdered)
FROM customers as c, orders as o, orderdetails as od
WHERE customerName like 'Mini%'AND c.customerNumber = o.customerNumber AND
o.orderNumber = od.orderNumber
GROUP BY customerName
ORDER BY SUM(quantityOrdered) DESC;
SCREENSHOT:
 MariaDB [prak2]> SELECT customerName, SUM(quantityOrdered)
    -> FROM customers as c, orders as o, orderdetails as od
-> WHERE customerName like '%Mini%'AND c.customerNumber = o.customerNumber AND o.orderNumber = od.orderNumber
    -> GROUP BY customerName
-> ORDER BY SUM(quantityOrdered) DESC;
                           | SUM(quantityOrdered) |
  Mini Gifts Distributors Ltd. |
  Mini Creations Ltd. |
Baane Mini Imports |
                                              1140
                                              1082
  Collectable Mini Designs Co.
  Marseille Mini Autos
  Mini Caravy
Mini Wheels Co.
  Online Mini Collectables
  Mini Auto Werke
 10 rows in set (0,002 sec)
```

4. Buatlah query untuk menampilkan nama depan pegawai dan kode kantor pegawai yang telah melayani lebih dari 7 pelanggan. Tampilkan juga banyak pelanggan yang dilayani dan urutkan mengecil berdasarkan banyak pelanggan dilayani.

QUERY:		
--------	--	--

```
SELECT e.firstName, o.officeCode, COUNT(c.customerNumber) as numOfCustomers
FROM
       offices as o
       INNER JOIN employees as e ON e.officeCode = o.officeCode
       INNER JOIN customers as c ON c.salesRepEmployeeNumber =
e.emploveeNumber
GROUP BY employeeNumber
HAVING numOfCustomers > 7
ORDER BY numOfCustomers DESC;
SCREENSHOT:
 MariaDB [prak2]> SELECT e.firstName, o.officeCode, COUNT(c.customerNumber) as numOfCustomers
-> FROM
    -> offices as o
   -> INNER JOIN employees as e ON e.officeCode = o.officeCode
    -> INNER JOIN customers as c ON c.salesRepEmployeeNumber = e.employeeNumber
   -> GROUP BY employeeNumber
   -> HAVING numOfCustomers > 7
    -> ORDER BY numOfCustomers DESC;
   -----
 firstName | officeCode | numOfCustomers |
  Pamela
  Barry
  George
                                    8
  Larry
 rows in set (0,001 sec)
```

 Buatlah query untuk menampilkan nomor pegawai, nama lengkap pegawai (firstName dan lastName), dan alamat email dari pegawai yang melayani pelanggan dengan 2 pemesanan terbanyak. Tampilkan juga nama pelanggan dan jumlah pemesanan yang dilakukannya.

6. Buatlah query untuk menampilkan nama pelanggan yang memiliki total pembayaran lebih dari 50000 dan dilayani oleh pegawai yang bekerja di kantor yang terletak di negara "Australia".

```
QUERY:
(SELECT customerName
payments as p,
customers as c
WHERE p.customerNumber = c.customerNumber
GROUP BY
c.customerNumber
HAVING SUM(amount) > 50000)
INTERSECT
(SELECT customerName
FROM
customers AS c,
employees AS e,
offices AS o
WHERE
c.salesRepEmployeeNumber = e.employeeNumber AND e.officeCode = o.officeCode
AND o.country = "Australia");
SCREENSHOT:
 MariaDB [prak1]> (select customerName from payments as p, customers as c where p.customerN
 umber = c.customerNumber group by c.customerNumber having sum(amount) > 50000) intersect (
 select customerName from customers as c, employees as e, offices as o where c.salesRepEmpl
 oyeeNumber = e.employeeNumber and e.officeCode = o.officeCode and o.country = "Australia")
 customerName
   Australian Collectors, Co.
   Handji Gifts& Co
   Anna's Decorations, Ltd
   Souveniers And Things Co.
   Down Under Souveniers, Inc
   Australian Gift Network, Co
   GiftsForHim.com
   Extreme Desk Decorations, Ltd
   Kelly's Gift Shop
 9 rows in set (0.007 sec)
```

7. Buatlah query untuk menampilkan nomor order dan nama produk dengan kategori "Classic Cars" yang pernah dipesan dengan harga jual yang memberikan keuntungan 35-36% atau 104-105%. Tampilkan juga persentase keuntungan dari pemesanan produk tersebut serta urutkan mengecil berdasarkan persentase tersebut.

```
QUERY:
SELECT DISTINCT od.orderNumber, p.productName,
(priceEach-buyPrice)/buyPrice*100 AS "keuntungan"
FROM
orderdetails as od,
products as p,
```

```
productlines as pl
WHERE
          od.productCode = p.productCode
          AND p.productLine = pl.productLine
          AND pl.productLine = "Classic Cars"
HAVING (keuntungan > 104 AND keuntungan < 105) OR (keuntungan > 35 AND
keuntungan < 36)
ORDER BY keuntungan DESC;
SCREENSHOT:
 ariaDB [prak2]> SELECT DISTINCT od.orderNumber, p.productName, (priceEach-buyPrice)/buyPrice*100 AS "keuntungan
     -> orderdetails as od,
     -> products as p,
-> productlines as pl
     -> WHERE
     -> od.productCode = p.productCode
     -> AND p.productLine = pl.productLine
-> AND pl.productLine = "Classic Cars"
-> HAVING (keuntungan > 104 AND keuntungan < 105) OR (keuntungan > 35 AND keuntungan < 36)
     -> ORDER BY keuntungan DESC;
  orderNumber | productName
                                                   | keuntungan |
         10419 | 1999 Indy 500 Monte Carlo SS
         10203 | 1982 Lamborghini Diablo
10147 | 1982 Lamborghini Diablo
                                                    104.618227
                                                    104.618227
         10310 | 1982 Lamborghini Diablo
                                                    104.618227
         10192 | 1982 Lamborghini Diablo
                                                    104.618227
         10266 | 1948 Porsche Type 356 Roadster | 104.552767
10343 | 1948 Porsche Type 356 Roadster | 104.552767
10424 | 1952 Alpine Renault 1300 | 104.341651
         10304
                 1952 Alpine Renault 1300
                                                     104.341651
104.341458
                 2001 Ferrari Enzo
         10247
         10117
                 2001 Ferrari Enzo
                                                     104.341458
         10185
                 2001 Ferrari Enzo
                                                     104.341458
                 1982 Camaro Z28
                                                     104.341285
         10150
         10310
                 1992 Ferrari 360 Spider red
                                                     104.338896
                  1957 Corvette Convertible
                                                     104.275704
         10260
                  1969 Ford Falcon
                                                     104.166165
         10282
                  1969 Ford Falcon
                                                     104.166165
         10127
                  1969 Ford Falcon
                                                     104.166165
                | 1969 Ford Falcon
                                                     104.166165
         10204
                  1957 Ford Thunderbird
                                                   104.150833
         10404
               1968 Dodge Charger
                                                     35.936668
                                                      35.936668
                 1968 Dodge Charger
                                                      35.936668
         10320
                | 1968 Dodge Charger
                 1970 Triumph Spitfire
                                                      35.933420
         10394
```

35.824533

35.824533 35.824533

35.717192

35.714286

35.714286 35.588552

35.484189 35.471024

35.471024

8. Buatlah query untuk menampilkan nomor pelanggan, nama pelanggan, rata-rata nominal dari semua pembayaran yang dilakukan pelanggan tersebut, dan banyak transaksi yang telah dilakukan oleh pelanggan dengan total semua pembayaran melebihi 500000. Urutkan mengecil berdasarkan banyak transaksi.

QUERY:

10288

10380 10254 10239

10203

10287

10393

10407

34 rows in set (0,012 sec)

| 1970 Chevy Chevelle SS 454

1970 Chevy Chevelle SS 454 1970 Chevy Chevelle SS 454

| 1948 Porsche 356-A Roadster

1998 Chrysler Plymouth Prowler

1956 Porsche 356A Coupe

10278 | 1948 Porsche 356-A Roadster

1993 Mazda RX-7

10173 | 1952 Citroen-15CV

1952 Citroen-15CV

```
SELECT c.customerNumber, c.customerName, COUNT(p.checkNumber) as
countPayments
FROM
       customers as c
       INNER JOIN payments as p ON p.customerNumber = c.customerNumber
GROUP BY p.customerNumber
HAVING SUM(p.amount) > 500000
ORDER BY countPayments DESC;
SCREENSHOT:
MariaDB [prak2]> SELECT c.customerNumber, c.customerName, COUNT(p.checkNumber) as countPayments
   -> customers as c
   -> INNER JOIN payments as p ON p.customerNumber = c.customerNumber
    -> GROUP BY p.customerNumber
   -> HAVING SUM(p.amount) > 500000
   -> ORDER BY countPayments DESC;
| customerNumber | customerName
                                 | countPayments |
        141 | Euro+ Shopping Channel | 13 |
          124 | Mini Gifts Distributors Ltd. |
2 rows in set (0,001 sec)
```

9. Buatlah query yang menampilkan nama customer, nama lengkap kontak customer tersebut, serta nomor telpon dari customer yang belum pernah membuat pesanan sama sekali! Nama lengkap kontak customer dibuat dalam kolom contactName yang terdiri dari nama depan dan nama belakang kontak tersebut (jangan lupa spasi).

```
QUERY:
SELECT
    customerName, CONCAT(contactFirstName, ' ', contactLastName)
contactName, phoneNumber
FROM
    customers
WHERE customerNumber not in (
    SELECT
        customerNumber
    FROM
        orders
);
SCREENSHOT:
```

```
MariaDB [prak1]> select customerName, concat(contactFirstName, ' '
s where customerNumber not in (select customerNumber from orders);
                                                                                                   ', contactLastName) contactName, phone from custome
 customerName
                                                  | contactName
                                                                                          I phone
  Havel & Zbyszek Co
                                                    Zbyszek Piestrzeniewicz | (26) 642-7555
                                                    Keith Franco
Isabel de Castro
Brydey Walker
                                                                                              2035557845
                                                                                             (1) 356-5555
  Porto Imports Co.
  Asian Shopping Network, Co
  Nat??rlich Autos
                                                  | Horst Kloss
| Alejandra Camino
                                                                                             (91) 745 6555
  ANG Resellers
                                                  | Renate Messner
| Peter Franken
  Messner Shopping Network
                                                                                             069-0555984
 Franken Gifts, Co
BG&E Collectables
                                                                                             089-0877555
                                                                                             +41 26 425 50 01
+31 20 491 9555
                                                    Ed Harrison
                                                    Bradley Schuyler
Mel Andersen
 Schuyler Imports
Der Hund Imports
Cramer Spezialit?ñten, Ltd
                                                                                              030-0074555
                                                  .
| Philip Cramer
| Patricia McKenna
                                                                                             0555-09555
2967 555
 Asian Treasures, Inc.
SAR Distributors, Co
                                                    Armand Kuger
                                                                                              +27 21 550 3555
                                                  | Karin Josephs
| Lino Rodriguez
                                                                                             0251-555259
(1) 354-2555
0452-076555
 Lisboa Souveniers, Inc
Precious Collectables
                                                    Braun Urs
 Precious Collectables
Stuttgart Collectable Exchange
Feuer Online Stores, Inc
Warburg Exchange
Anton Designs, Ltd.
Mit Vergn??gen & Co.
Kremlin Collectables, Co.
Pagagan Stores, Inc.
                                                    Alexander Feuer
Sven Ottlieb
                                                                                             0342-555176
                                                                                             0241-039123
                                                                                             0621-08555
                                                                                             +7 812 293 0521
                                                    Alexander Semenov
                                                    Raanan Altagar,G M
                                                                                             + 972 9 959 8555
  Raanan Stores, Inc
24 rows in set (0,001 sec)
```

10. Buatlah query yang menampilkan nomor customer dan nama customer yang pernah memesan salah satu atau beberapa di antara 3 produk dengan jumlah order tertinggi. Penentuan produk dengan jumlah order tertinggi dibatasi dalam range antara 900 dan 950 order. Nomor customer dan nama customer ditampilkan secara unik.

(clue: Gunakan LIMIT untuk membatasi jumlah rows yang ditampilkan)

QUERY:

SELECT DISTINCT customerNumber, customerName
FROM customers
NATURAL INNER JOIN orders
NATURAL INNER JOIN orderdetails AS od
INNER JOIN
(SELECT productCode FROM
(SELECT productCode, SUM(quantityOrdered) as sumQuant
FROM orderdetails
GROUP BY productCode) AS X
WHERE sumQuant BETWEEN 900 AND 950
ORDER BY sumQuant DESC LIMIT 3)
AS Y
ON od.productCode = Y.productCode;

```
MariaOB [prak2]> SELECT DISTINCT customerNumber, customerName
          -> FROM customers
-> NATURAL INNER JOIN orders
-> NATURAL INNER JOIN orderdetails AS od
           -> INNER JOIN
           -> (SELECT productCode FROM
           -> (SELECT productCode, SUM(quantityOrdered) as sumQuant
           -> FROM orderdetails
           -> GROUP BY productCode) AS X
           -> WHERE sumQuant BETWEEN 900 AND 950
-> ORDER BY sumQuant DESC LIMIT 3)
           -> AS Y
           -> ON od.productCode = Y.productCode;
                                    umber | customerName

187 | AV Stores, Co.
112 | Signal Gift Stores
496 | Kelly's Gift Shop
276 | Anna's Decorations, Ltd
227 | Heintze Collectables
175 | Gift Depot Inc.
124 | Mini Gifts Distributors Ltd.
363 | Online Diecast Creations Co.
151 | Muscle Machine Inc
141 | Euro+ Shopping Channel
146 | Saveley & Henriot, Co.
209 | Mini Caravy
323 | Down Under Souveniers, Inc
166 | Handji Gifts& Co
201 | UK Collectables, Ltd.
462 | FunGiftIdeas.com
450 | The Sharp Gifts Warehouse
282 | Souveniers And Things Co.
486 | Motor Mint Distributors Inc.
103 | Atelier graphique
353 | Reims Collectables
167 | Herkku Gifts
239 | Collectable Mini Designs Co.
177 | Osaka Souveniers Co.
386 | L'ordine Souveniers
298 | Vida Sport, Ltd
299 | Norway Gifts By Mail, Co.
205 | Toys4GrownUps.com
145 | Danish Wholesale Imports
382 | Salzburg Collectables
350 | Marseille Mini Autos
242 | Alpha Cognac
233 | Qu??bec Home Shopping Network
259 | Toms Spezialit?ñten, Ltd
141 | Australian Collectors, Co.
250 | Lyon Souveniers
320 | Mini Creations Ltd.
   customerNumber | customerName
                                                     | Lyon Souveniers
| Mini Creations Ltd.
                                         250
                                         320
                                                           Toys of Finland, Co.
38 rows in set (0,009 sec)
```

III. Soal Susulan Praktikum

1. Buatlah query yang menampilkan tahun, banyak customer, serta jumlah total payment untuk tiap tahunnya!

(clue: gunakan YEAR() untuk mengambil tahun dari tipe data DATE)

2. Buatlah query yang menampilkan daftar employee yang memiliki nama belakang yang sama serta banyak employee yang memiliki nama belakang tersebut! Simpan kolom nama belakang tersebut sebagai kolom count.

```
QUERY:
SELECT lastName, COUNT(employeeNumber) count
FROM employees
GROUP BY lastName
HAVING COUNT(employeeNumber)>1

SCREENSHOT:
MariaDB [prak2]> select lastName, count(employeeNumber) count from employees group by lastName having count(employeeNumber)>1;
| lastName | count |
| lastName | count |
| Firelli | 2 |
| Firelli | 2 |
| Patterson | 3 |
| rows in set (0.001 sec)
```

3. Buatlah query untuk menampilkan nama produk dengan harga beli melebihi rata-rata harga beli dari semua produk. Tampilkan juga harga beli dari produk tersebut dan urutkan membesar berdasarkan harga beli.

```
QUERY:
SELECT productName, buyPrice
FROM products
WHERE buyPrice > (SELECT AVG(buyPrice) FROM products)
ORDER BY buyPrice

SCREENSHOT:
```

	+
productName	buyPrice
F/A 18 Hornet 1/72	54.40
1957 Chevy Pickup	55.70
1974 Ducati 350 Mk3 Desmo	56.13
1999 Indy 500 Monte Carlo SS	56.76
1985 Toyota Supra	57.01
1936 Chrysler Airflow	57.46
1917 Maxwell Touring Car 1940 Ford Pickup Truck	57.54 58.33
1932 Model A Ford J-Coupe	58.48
1969 Dodge Charger	58.73
ATA: B757-300	59.33
1937 Lincoln Berline	60.62
18th Century Vintage Horse Carriage	60.74
1913 Ford Model T Speedster	60.78
1997 BMW R 1100 S	60.86
1962 Volkswagen Microbus	61.34
2002 Chevy Corvette 1948 Porsche Type 356 Roadster	62.11 62.16
1941 Chevrolet Special Deluxe Cabriolet	64.58
1965 Aston Martin DB5	65.96
2002 Suzuki XREO	66.27
1928 British Royal Navy Airplane	66.74
1997 BMW F650 ST	66.92
Collectable Wooden Train	67.56
Diamond T620 Semi-Skirted Tanker	68.29
1903 Ford Model A	68.30
America West Airlines B757-200	68.80
1996 Moto Guzzi 1100i 1992 Porsche Cayenne Turbo Silver	68.99 69.78
1957 Corvette Convertible	69.93
1928 Mercedes-Benz SSK	72.56
1952 Citroen-15CV	72.82
1976 Ford Gran Torino	73.49
1964 Mercedes Tour Bus	74.86
1968 Dodge Charger	75.16
1980s Black Hawk Helicopter	77.27
1992 Ferrari 360 Spider red	77.90
1958 Setra Bus	77.90
18th century schooner 1969 Ford Falcon	82.34 83.05
1909 Ford Falcon 1909 Mazda RX-7	83.51
1940s Ford truck	84.76
1972 Alfa Romeo GTA	85.68
1917 Grand Touring Sedan	86.70
1969 Corvair Monza	89.14
1060 Convain Monza	90.14
1969 Corvair Monza 2003 Harley-Davidson Eagle Drag Bike	89.14 91.02
1970 Triumph Spitfire	91.92
1995 Honda Civic	93.89
1968 Ford Mustang	95.34
2001 Ferrari Enzo	95.59
1956 Porsche 356A Coupe	98.30
1952 Alpine Renault 1300	98.58
1998 Chrysler Plymouth Prowler	101.51
1962 LanciaA Delta 16V	103.42
+ 54 rows in set (0.002 sec)	+
51 1 0M5 111 3CC (0.002 3CC)	

4. Buatlah query untuk menampilkan kode dan nama dari produk dengan productLine mengandung kata 'Cars' yang pernah dipesan oleh pelanggan yang pernah melakukan pembayaran lebih dari 10 kali.

Q	ıı	F	D.	v	٠
w	v	_	1		

```
SELECT productCode, productName
FROM products
WHERE products.productCode IN
(SELECT od.productCode
FROM payments as p
NATURAL INNER JOIN customers as c
NATURAL INNER JOIN orders as o
NATURAL INNER JOIN orderDetails as od
GROUP BY c.customerNumber
HAVING count(p.checkNumber) > 10)
AND productLine LIKE '%Cars%';
```

SCREENSHOT.

productCode	productName
S10_1949	1952
S10_4757	1972 Alfa Romeo GTA
S10_4962	1962 LanciaA Delta 16V
S12_1099	1968 Ford Mustang
S12_1108	2001 Ferrari Enzo
S12_3148	1969 Corvair Monza
S12_3380	1968 Dodge Charger
S18_1129	1993 Mazda RX-7
S18_1342	1937 Lincoln Berline
S18_1589	1965 Aston Martin DB5
S18_1749	1917 Grand Touring Sedan
S18_2325	1932 Model A Ford J-Coupe
S18_3140	1903 Ford Model A
S18_4027	1970 Triumph Spitfire
S24_3151	1912 Ford Model T Delivery Wagon
S24_3969	1936 Mercedes Benz 500k Roadster
S50_1341	1930 Buick Marquette Phaeton

5. Buatlah query untuk menampilkan nama customer yang mengandung "Gift" beserta jumlah dari seluruh produk yang pernah mereka pesan. Urutkan berdasarkan customer dengan jumlah pemesanan produk terkecil.

QUERY:

SELECT customerName, SUM(quantityOrdered)

FROM customers as c, orders as o, orderdetails as od

WHERE customerName like '%Gift%'AND c.customerNumber = o.customerNumber

AND o.orderNumber = od.orderNumber

GROUP BY customerName

ORDER BY SUM(quantityOrdered) DESC;

6366 1832
1832
1656
1650
1647
1447
1359
1236
1036
1003
973
929
903
903
895
787
703
668
666
589

6. Buatlah query untuk menampilkan nomor pegawai, nama lengkap pegawai (firstName dan lastName), dan alamat email dari pegawai yang melayani pelanggan dengan 5 pemesanan paling sedikit. Tampilkan juga nama pelanggan dan jumlah pemesanan yang dilakukannya.

QUERY:

SELECT customerName, employeeNumber, firstName, lastName, email, COUNT(orderNumber)

FROM customers as c, orders as o, employees as e

WHERE c.customerNumber = o.customerNumber AND c.salesRepEmployeeNumber = e.employeeNumber

GROUP BY c.customerName

ORDER BY count(orderNumber) ASC

LIMIT 5;

customerName	employeeNumber	firstName	lastName	email	COUNT(orderNumber)
Bavarian Collectables Imports, Co.	1504	Barry	Jones	bjones@classicmodelcars.com	1
Amica Models & Co.	1401	Pamela	Castillo	pcastillo@classicmodelcars.com	2
Canadian Gift Exchange Network	1323	George	Vanauf	gvanauf@classicmodelcars.com	2
giftsbymail.co.uk	1501	Larry	Bott	lbott@classicmodelcars.com	2
West Coast Collectables Co.	1166	Leslie	Thompson	lthompson@classicmodelcars.com	2

7. Buatlah query untuk menampilkan nomor order dan nama produk dengan kategori "Vintage Cars" yang memberikan keuntungan 106-107% serta dibeli pada tahun 2004. Tampilkan juga persentase keuntungan dari pemesanan produk tersebut serta urutkan mengecil berdasarkan persentase tersebut.

QUERY:

SELECT DISTINCT orderNumber, productName, (priceEach-buyPrice)/buyPrice*100 AS "keuntungan"

FROM

orders NATURAL JOIN orderDetails NATURAL JOIN products

WHERE

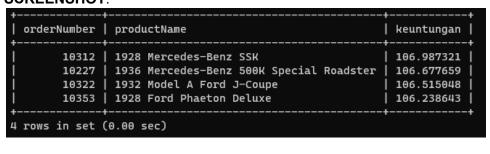
productLine = "Vintage Cars"

AND YEAR(orderDate) = 2004

HAVING (keuntungan > 106 AND keuntungan < 107)

ORDER BY keuntungan DESC;

SCREENSHOT:



8. Buatlah *query* untuk menampilkan seluruh nama customer yang tidak pernah melakukan pemesanan terhadap produk yang dipasok oleh vendor "Min Lin Diecast"!

```
QUERY:
```

```
SELECT customerName
FROM customers c1
WHERE NOT EXISTS
( SELECT *
FROM customers c2, orders o, orderdetails od, products p
WHERE c2.customerNumber = o.customerNumber AND o.orderNumber =
od.orderNumber AND d od.productCode = p.productCode AND productVendor = "Min
Lin Diecast" AND c1.customerNumber = c2.customerNumber );
```

```
SCREENSHOT:
  MariaDB [prakl]> select customerName from customers c1 where not exists (select * from customers c2, orders
o, orderdetails od, products p where c2.customerNumber = o.customerNumber and o.orderNumber = od.orderNumber
and od.productCode = p.productCode and productVendor = "Min Lin Diecast" and c1.customerNumber = c2.custome
    customerName
    Atelier graphique
Havel & Zbyszek Co
Handji Gifts& Co
    American Souvenirs Inc
Porto Imports Co.
     La Corne D'abondance, Co.
     Asian Shopping Network, Co
    Mini Caravy
Nat??rlich Autos
ANG Resellers
    Messner Shopping Network
Franken Gifts, Co
BG&E Collectables
    Schuyler Imports
Der Hund Imports
     Cramer Spezialit?ñten, Ltd
    Asian Treasures, Inc
SAR Distributors, Co
     Kommission Auto
    Lisboa Souveniers, Inc
Precious Collectables
    Stuttgart Collectable Exchange
Feuer Online Stores, Inc
    Warburg Exchange
Anton Designs, Ltd.
Frau da Collezione
    Mit Vergn??gen & Co.
Kremlin Collectables, Co.
    Raanan Stores, Inc
Iberia Gift Imports, Corp.
Signal Collectibles Ltd.
      rows in set (0.005 sec)
```

 Buatlah query untuk menampilkan nama produk yang harga belinya lebih mahal daripada harga satuan dari seluruh produk yang pernah dipesan oleh customer dengan nomor telepon "3105552373"!

10. Buatlah *query* untuk menampilkan nomor customer, nama customer, limit kredit, dan nama lengkap employee yang melayaninya. Customer yang ditampilkan merupakan customer yang mempunyai *credit limit* yang lebih rendah daripada rata-rata *credit limit* customer dari negara USA. Nama lengkap employee merupakan gabungan antara nama depan dan nama belakangnya.

Clue: gunakan CONCAT untuk menggabungkan nama lengkap employee

QUERY:

WITH X(value) AS (SELECT AVG(creditLimit) FROM customers WHERE country = 'USA')

SELECT c.customerNumber, customerName, creditLimit, CONCAT(firstName, '', lastName) AS employeeName FROM customers c

INNER JOIN employees e

ON c.salesRepEmployeeNumber = e.employeeNumber,

X WHERE creditLimit < X.value;

customerNumber	customorNamo	creditLimit	omal avaaNama
cuscomernumber	cuscomername	credittimit	emptoyeename
103	Atelier graphique	21000.00	Gerard Hernandez
112	Signal Gift Stores	71800.00	Leslie Thompson
128	Blauer See Auto, Co.	59700.00	Barry Jones
129	Mini Wheels Co.	64600.00	Leslie Jennings
144	Volvo Model Replicas, Co	53100.00	Barry Jones
168	American Souvenirs Inc	0.00	Foon Yue Tseng
173	Cambridge Collectables Co.	43400.00	Julie Firrelli
181	Vitachrome Inc.	76400.00	Foon Yue Tseng
189	Clover Collections, Co.	69400.00	Barry Jones
198	Auto-Moto Classics Inc.	23000.00	Steve Patterson
204	Online Mini Collectables	68700.00	Julie Firrelli
209	Mini Caravy	53800.00	Gerard Hernandez
211	King Kong Collectables, Co.	58600.00	Mami Nishi
	Enaco Distributors		Martin Gerard
219	Boards & Toys Co.	11000.00	Leslie Thompson
	Qu??bec Home Shopping Network	48700.00	Foon Yue Tseng
242	Alpha Cognac	61100.00	Gerard Hernandez
	Lyon Souveniers		Loui Bondur
	Auto Associ??s & Cie.		Gerard Hernandez
324	Stylish Desk Decors, Co.	77000.00	Larry Bott
328	Tekni Collectables Inc.	43000.00	George Vanauf
	Australian Gift Network, Co		Andy Fixter
	CAF Imports		Martin Gerard
	Men 'R' US Retailers, Ltd.		Leslie Thompson
	Marseille Mini Autos		Loui Bondur
	GiftsForHim.com		Peter Marsh
	Gifts4AllAges.com		Steve Patterson
	Precious Collectables		Martin Gerard
	Collectables For Less Inc.		Julie Firrelli
	Royale Belge		Pamela Castillo
	Salzburg Collectables		Pamela Castillo
	Bavarian Collectables Imports, Co.		Barry Jones
	Classic Legends Inc.		Foon Yue Tseng
	Gift Ideas Corp.		George Vanauf
	The Sharp Gifts Warehouse		Leslie Jennings
	Mini Auto Werke		Pamela Castillo
	Microscale Inc.		Foon Yue Tseng
	Australian Collectables, Ltd		Andy Fixter
	Frau da Collezione		Pamela Castillo
	West Coast Collectables Co.		Leslie Thompson
	Iberia Gift Imports, Corp. Motor Mint Distributors Inc.		Martin Gerard George Vanauf
	Signal Collectibles Ltd. Double Decker Gift Stores, Ltd		Leslie Jennings Larry Bott
t	Doubte Decker Gift Stores, Ltd	43300.00	Larry Bott
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