

## SQL Challenge

### Challenge #1

#### Question:

The sales department has found that the Eurasian market is going to experience a boom in the next year. The sales department wants to increase the sale of popular items by 6%. To get an example of what the prices would be we need to get the customerNumber, orderNumber, and productCode, for all items currently sold to non-US markets. Then we need to calculate the priceEach with 6% increase and the potential profit based on the the prices with the 6% increase and the quantity ordered for each order minus the original total. The sales department would also like this information for future use, write the query implicitly and as a stored program in a language of your choice (IE: Python, C). The table should contain 7 columns and 1,992 rows. You will also need the mysql round function to round potential profit to the nearest two decimal places.

#### Result Table

orderNumber	productCode	customerNumber	priceEach	priceIncrease	grandTotal	potentialProfit
10123	S18_1589	103	120.71	127.9526	3138.46	188
10123	S18_2870	103	114.84	121.7304	5282.64	317
10123	S18_3685	103	117.26	124.2956	3986.84	239
10123	S24_1628	103	43.27	45.8662	2163.50	130
10298	S10_2016	103	105.86	112.2116	4128.54	248
10298	S18_2625	103	60.57	64.2042	1938.24	116
10345	S24_2022	103	38.98	41.3188	1676.14	101
10120	S10_2016	114	118.94	126.0764	3449.26	207
10120	S10_4698	114	158.80	168.3280	7304.80	438
10120	S18_2581	114	82.79	87.7574	2400.91	144
10120	S18_2625	114	57.54	60.9924	2646.84	159
10120	S24_1578	114	110.45	117.0770	3865.75	232
10120	S24_1785	114	93.01	98.5906	3627.39	218
10120	S24_2000	114	72.36	76.7016	2460.24	148
10120	S24_4278	114	71.73	76.0338	2080.17	125
10120	S32_1374	114	94.90	100.5940	2087.80	125
10120	S32_4289	114	68.79	72.9174	1994.91	120
10120	S50_1341	114	41.46	43.9476	2031.54	122
10120	S700_1691	114	91.34	96.8204	4292.98	258
10120	S700_2466	114	81.77	86.6762	1962.48	118
10120	S700_2834	114	106.79	113.1974	2562.96	154
10120	S700_3167	114	72.00	76.3200	3096.00	186
10125	S18_1342	114	89.38	94.7428	2860.16	172
10125	S18_2795	114	138.38	146.6828	4704.92	282
10223	S10_1678	114	80.32	85.2134	2974.43	178

## Your Query

```
#!/usr/bin/python

import MySQLdb as mdb
import sys

try:
    con = mdb.connect('localhost', 'solivers17', 'OChigh89!', 'classicmodels')
    cur = con.cursor()
    cur.execute("""SELECT o.orderNumber, od.productCode, o.customerNumber, od.priceEach,
        (od.priceEach + (od.priceEach * .06)), (od.priceEach * od.quantityOrdered),
        ((od.priceEach * .06) * od.quantityOrdered)
        FROM orders AS o, orderdetails as od, products AS p
        WHERE o.orderNumber = od.orderNumber
        AND od.productCode = p.productCode
        AND o.customerNumber IN(SELECT customerNumber FROM customers WHERE country != 'USA')
        LIMIT 100""")

    rows = cur.fetchall()
    col = ['orderNumber', 'productCode', 'customerNumber', 'priceEach', \
        'priceIncrease', 'grandTotal', 'potentialProfit']
    print "" | %11s | %11s | %14s | %11s | %13s | %10s | %15s |
    "" % (col[0], col[1], col[2], col[3], col[4], col[5], col[6])
    for row in rows:
        print "" | %11d | %11s | %14d | %11.2f | %13.4f | %10.2f | %15.0f |
        "" % (row[0], row[1], row[2], row[3], row[4], row[5], row[6])

except mdb.Error, e:
    print("MySQL ERROR!")
    print("Error: %s" % e.args[1])
    sys.exit(1)

finally:
    if con:
        con.close()
```

## Your Result

orderNumber	productCode	customerNumber	priceEach	priceIncrease	grandTotal	potentialProfit
10123	S18_1589	103	120.71	127.9526	3138.46	188
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10298	S18_2625	103	60.57	64.2042	1938.24	116
10345	S24_2022	103	38.98	41.3188	1676.14	101
10120	S10_2016	114	118.94	126.0764	3449.26	207
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10120	S24_2000	114	72.36	76.7016	2460.24	148
10120	S24_4278	114	71.73	76.0338	2080.17	125
10120	S32_1374	114	94.90	100.5940	2087.80	125
10120	S32_4289	114	68.79	72.9174	1994.91	120
10120	S50_1341	114	41.46	43.9476	2031.54	122
10120	S700_1691	114	91.34	96.8204	4292.98	258
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10120	S700_3167	114	72.00	76.3200	3096.00	186
10125	S18_1342	114	89.38	94.7428	2860.16	172
10125	S18_2795	114	138.38	146.6828	4704.92	282
10223	S10_1678	114	80.39	85.2134	2974.43	178

\*\*There are more results, but I cut them off where the provided results tables does.

### Question # 2

Return the check number and payment date for all payments whose checks begin with the letter 'P' and were written in February of 2004.

### Result Table

checkNumber	paymentDate
PB951268	2004-02-13
PT550181	2004-02-29

### Your Query

```
SELECT checkNumber, paymentDate FROM payments WHERE checkNumber LIKE 'P%'
AND paymentDate LIKE '2004-02%'
```

### Your Result

```
mysql> source challenge02.sql
+-----+-----+
| checkNumber | paymentDate |
+-----+-----+
| PB951268    | 2004-02-13  |
| PT550181    | 2004-02-29  |
+-----+-----+
2 rows in set, 1 warning (0.01 sec)
```

### Question # 3

Show me the ten highest quantity products what were shipped (does not count null) at least a month after they were ordered.

#### Result Table

```
mysql> source sqlChall.sql
Database changed
+-----+-----+
| productCode | quantityOrdered |
+-----+-----+
| S700_3505    | 50              |
| S72_3212     | 50              |
| S50_1341     | 49              |
| S12_3891     | 49              |
| S32_3207     | 49              |
| S12_2823     | 48              |
| S18_3782     | 48              |
| S24_3432     | 48              |
| S24_4620     | 47              |
| S50_4713     | 47              |
+-----+-----+
10 rows in set (0.00 sec)

mysql>
```

#### Your Query

```
SELECT productCode, quantityOrdered FROM orderdetails
  WHERE orderNumber IN (
    SELECT orderNumber FROM orders WHERE shippedDate IS NOT NULL
    AND (shippedDate - orderDate) > 31
  )
GROUP BY productCode
ORDER BY quantityOrdered DESC
LIMIT 10;
```

#### Your Result

```
+-----+-----+
| productCode | quantityOrdered |
+-----+-----+
| S700_3505    | 50              |
| S72_3212     | 50              |
| S50_1341     | 49              |
| S12_3891     | 49              |
| S32_3207     | 49              |
| S12_2823     | 48              |
| S18_3782     | 48              |
| S24_3432     | 48              |
| S24_4620     | 47              |
| S50_4713     | 47              |
+-----+-----+
10 rows in set (0.01 sec)
```



#### Question # 4

Show the customer (name, contact name, phone number), order number, and sales rep for all orders that were ordered or shipped during april of any year. Order by sales rep

#### Result Table

Customer	Contact	Phone Number	Order Number	Sales Rep
The Sharp Gifts Warehouse	Sue Frick	4085553659	10400	Leslie Jennings
The Sharp Gifts Warehouse	Sue Frick	4085553659	10407	Leslie Jennings
Diecast Collectables	Valarie Franco	6175552555	10243	Julie Firrelli
Vitachrome Inc.	Michael Frick	2125551500	10237	Foon Yue Tseng
Classic Legends Inc.	Maria Hernandez	2125558493	10115	Foon Yue Tseng
Microscale Inc.	Yu Choi	2125551957	10242	Foon Yue Tseng
Tekni Collectables Inc.	William Brown	2015559350	10233	George Vanauf
Tekni Collectables Inc.	William Brown	2015559350	10401	George Vanauf
Motor Mint Distributors Inc.	Rosa Salazar	2155559857	10236	George Vanauf
Royal Canadian Collectables, Ltd.	Elizabeth Lincoln	(604) 555-4555	10235	George Vanauf
Auto Canal+ Petit	Dominique Perrier	(1) 47.55.6555	10402	Loui Bondur
La Corne D'abondance, Co.	Marie Bertrand	(1) 42.34.2555	10114	Loui Bondur
Alpha Cognac	Annette Roulet	61.77.6555	10397	Gerard Hernandez
Euro+ Shopping Channel	Diego Freyre	(91) 555 94 44	10244	Gerard Hernandez
Mini Caravy	Frédérique Citeaux	88.60.1555	10241	Gerard Hernandez
Mini Caravy	Frédérique Citeaux	88.60.1555	10405	Gerard Hernandez
Salzburg Collectables	Georg Pippes	6562-9555	10119	Pamela Castillo
Danish Wholesale Imports	Jytte Petersen	31 12 3555	10238	Pamela Castillo
Danish Wholesale Imports	Jytte Petersen	31 12 3555	10406	Pamela Castillo
Royale Belge	Pascale Cartrain	(071) 23 67 2555	10116	Pamela Castillo
UK Collectables, Ltd.	Elizabeth Devon	(171) 555-2282	10403	Larry Bott
Oulu Toy Supplies, Inc.	Pirkko Koskitalo	981-443655	10239	Larry Bott
Australian Collectors, Co.	Peter Ferguson	03 9520 4555	10120	Andy Fixter
Handji Gifts Co	Wendy Victorino	+65 224 1555	10409	Peter Marsh
Kelly's Gift Shop	Tony Snowden	+64 9 5555500	10399	Peter Marsh
Down Under Souvenirs, Inc	Mike Graham	+64 9 312 5555	10404	Peter Marsh
GiftsForHim.com	Wales MacKinlay	64-9-3763555	10410	Peter Marsh
Extreme Desk Decorations, Ltd	Sarah McRoy	04 499 9555	10234	Peter Marsh
Dragon Souvenirs, Ltd.	Eric Natividad	+65 221 7555	10117	Mami Nishi
Osaka Souvenirs Co.	Mory Kentary	+81 06 6342 5555	10240	Mami Nishi
Tokyo Collectables, Ltd	Akiko Shimamura	+81 3 3584 0555	10408	Mami Nishi
Enaco Distributors	Eduardo Saavedra	(93) 203 4555	10118	Martin Gerard

32 rows in set (0.01 sec)

## Your Query

```
SELECT customerName AS Customer,
       CONCAT(contactFirstName, ' ', contactLastName) AS Contact,
       phone AS 'Phone Number',
       orderNumber AS 'Order Number',
       CONCAT(firstName, ' ', lastName) AS 'Sales Rep'
FROM customers AS c
JOIN orders AS o ON c.customerNumber = o.customerNumber
JOIN employees AS e ON c.salesRepEmployeeNumber = e.EmployeeNumber
WHERE MONTH(shippedDate) = 4
     OR MONTH(orderDate) = 4
ORDER BY salesRepEmployeeNumber;
```

## Your Result

```
mysql> source challenge04.sql
+-----+-----+-----+-----+-----+
| Customer | Contact | Phone Number | Order Number | Sales Rep |
+-----+-----+-----+-----+-----+
| The Sharp Gifts Warehouse | Sue Frick | 4085553659 | 10400 | Leslie Jennings |
| The Sharp Gifts Warehouse | Sue Frick | 4085553659 | 10407 | Leslie Jennings |
| Diecast Collectables | Valarie Franco | 6175552555 | 10243 | Julie Firrelli |
| Vitachrome Inc. | Michael Frick | 2125551500 | 10237 | Foon Yue Tseng |
| Classic Legends Inc. | Maria Hernandez | 2125558493 | 10115 | Foon Yue Tseng |
| Microscale Inc. | Yu Choi | 2125551957 | 10242 | Foon Yue Tseng |
| Tekni Collectables Inc. | William Brown | 2015559350 | 10233 | George Vanauf |
| Tekni Collectables Inc. | William Brown | 2015559350 | 10401 | George Vanauf |
| Motor Mint Distributors Inc. | Rosa Salazar | 2155559857 | 10236 | George Vanauf |
| Royal Canadian Collectables, Ltd. | Elizabeth Lincoln | (604) 555-4555 | 10235 | George Vanauf |
| Auto Canal+ Petit | Dominique Perrier | (1) 47.55.6555 | 10402 | Loui Bondur |
| La Corne D'abondance, Co. | Marie Bertrand | (1) 42.34.2555 | 10114 | Loui Bondur |
| Alpha Cognac | Annette Roulet | 61.77.6555 | 10397 | Gerard Hernandez |
| Euro+ Shopping Channel | Diego Freyre | (91) 555 94 44 | 10244 | Gerard Hernandez |
| Mini Caravy | Frédérique Citeaux | 88.60.1555 | 10241 | Gerard Hernandez |
| Mini Caravy | Frédérique Citeaux | 88.60.1555 | 10405 | Gerard Hernandez |
| Salzburg Collectables | Georg Pippes | 6562-9555 | 10119 | Pamela Castillo |
| Danish Wholesale Imports | Jytte Petersen | 31 12 3555 | 10238 | Pamela Castillo |
| Danish Wholesale Imports | Jytte Petersen | 31 12 3555 | 10406 | Pamela Castillo |
| Royale Belge | Pascale Cartrain | (071) 23 67 2555 | 10116 | Pamela Castillo |
| UK Collectables, Ltd. | Elizabeth Devon | (171) 555-2282 | 10403 | Larry Bott |
| Oulu Toy Supplies, Inc. | Pirkko Koskitalo | 981-443655 | 10239 | Larry Bott |
| Australian Collectors, Co. | Peter Ferguson | 03 9520 4555 | 10120 | Andy Fixter |
| Handji Gifts& Co | Wendy Victorino | +65 224 1555 | 10409 | Peter Marsh |
| Kelly's Gift Shop | Tony Snowden | +64 9 5555500 | 10399 | Peter Marsh |
| Down Under Souvenirs, Inc | Mike Graham | +64 9 312 5555 | 10404 | Peter Marsh |
| GiftsForHim.com | Wales MacKinlay | 64-9-3763555 | 10410 | Peter Marsh |
| Extreme Desk Decorations, Ltd | Sarah McRoy | 04 499 9555 | 10234 | Peter Marsh |
| Dragon Souvenirs, Ltd. | Eric Natividad | +65 221 7555 | 10117 | Mami Nishi |
| Osaka Souvenirs Co. | Mory Kentary | +81 06 6342 5555 | 10240 | Mami Nishi |
| Tokyo Collectables, Ltd | Akiko Shimamura | +81 3 3584 0555 | 10408 | Mami Nishi |
| Enaco Distributors | Eduardo Saavedra | (93) 203 4555 | 10118 | Martin Gerard |
+-----+-----+-----+-----+-----+
32 rows in set (0.00 sec)
```

A company wants to reward all of its customers who purchased items that cost more than 100 dollars each, and the sales representatives that sold it to them. They also want to reward customers and the sales reps of customers that have names consisting of five or more words (as part of a competition for longest name). Write a query that returns these customers' names, phone numbers, the total quantity of products ordered, and the price of the most expensive item they bought. Also have it return the sales rep employees' names (all in one column), job titles, phone numbers, and states. Limit it to the top 30, ordered by customerName

[illegible]

```
SELECT c.customerName AS 'Customer Name',
       c.phone AS 'Customer Phone',
       CONCAT(e.firstName, ' ', e.lastName) AS 'Rep Name',
       e.jobTitle AS 'REP Job',
       o.phone AS 'REP Phone',
       o.state AS 'REP State',
       SUM(det.quantityOrdered) AS 'Total Ordered',
       MAX(det.priceEach) AS 'Most Expensive'
FROM customers AS c
JOIN employees AS e ON c.salesRepEmployeeNumber = e.employeeNumber
JOIN orders AS ord ON c.customerNumber = ord.customerNumber
JOIN offices AS o ON e.officeCode = o.officeCode
JOIN orderdetails AS det ON ord.orderNumber = det.orderNumber
WHERE c.customerName LIKE '홍 ? ? ? ?'
OR det.priceEach >= 100
GROUP BY c.customerName
ORDER BY c.customerName
LIMIT 30;
```



Your Result – obviously I can't check if my table is the same as the provided one as the provided table is unreadable.

```
mysql> source challenge05.sql
```

Customer Name	Customer Phone	Rep Name	REP Job	REP Phone	REP State	Total Ordered	Most Expensive
Alpha Cognac	61.77.6555	Gerard Hernandez	Sales Rep	+33 14 723 4404	NULL	216	169.34
Amica Models & Co.	011-4988555	Pamela Castillo	Sales Rep	+33 14 723 4404	NULL	308	205.73
Anna's Decorations, Ltd	02 9936 8555	Andy Fixter	Sales Rep	+61 2 9264 2451	NULL	703	195.01
Atelier graphique	40.32.2555	Gerard Hernandez	Sales Rep	+33 14 723 4404	NULL	145	120.71
Australian Collectables, Ltd	61-9-3844-6555	Andy Fixter	Sales Rep	+61 2 9264 2451	NULL	136	153.00
Australian Collectors, Co.	03 9520 4555	Andy Fixter	Sales Rep	+61 2 9264 2451	NULL	746	189.79
Australian Gift Network, Co	61-7-3844-6555	Andy Fixter	Sales Rep	+61 2 9264 2451	NULL	374	207.87
Auto Associés & Cie.	30.59.8555	Gerard Hernandez	Sales Rep	+33 14 723 4404	NULL	219	201.44
Auto Canal+ Petit	(1) 47.55.6555	Loui Bondur	Sales Rep	+33 14 723 4404	NULL	283	171.22
AV Stores, Co.	(171) 555-1555	Larry Bott	Sales Rep	+44 20 7877 2041	NULL	501	182.86
Baane Mini Imports	07-98 9555	Barry Jones	Sales Rep	+44 20 7877 2041	NULL	338	214.30
Bavarian Collectables Imports, Co.	+49 89 61 08 9555	Barry Jones	Sales Rep	+44 20 7877 2041	NULL	58	146.65
Blauer See Auto, Co.	+49 69 66 90 2555	Barry Jones	Sales Rep	+44 20 7877 2041	NULL	304	184.84
CAF Imports	+34 913 728 555	Martin Gerard	Sales Rep	+33 14 723 4404	NULL	164	193.25
Cambridge Collectables Co.	6175555555	Julie Firrelli	Sales Rep	+1 215 837 0825	MA	116	214.30
Canadian Gift Exchange Network	(604) 555-3392	George Vanauf	Sales Rep	+1 212 555 3000	NY	324	203.59
Classic Gift Ideas, Inc	2155554695	Julie Firrelli	Sales Rep	+1 215 837 0825	MA	195	180.01
Classic Legends Inc.	2125558493	Foon Yue Tseng	Sales Rep	+1 212 555 3000	NY	345	212.16
Clover Collections, Co.	+353 1862 1555	Barry Jones	Sales Rep	+44 20 7877 2041	NULL	243	189.10
Collectable Mini Designs Co.	7605558146	Leslie Thompson	Sales Rep	+1 650 219 4782	CA	230	137.19
Collectables For Less Inc.	6175558555	Julie Firrelli	Sales Rep	+1 215 837 0825	MA	263	195.01
Corporate Gift Ideas Co.	6505551386	Leslie Jennings	Sales Rep	+1 650 219 4782	CA	598	188.73
Corrida Auto Replicas, Ltd	(91) 555 22 82	Martin Gerard	Sales Rep	+33 14 723 4404	NULL	467	207.80
Cruz & Sons Co.	+63 2 555 3587	Mami Nishi	Sales Rep	+81 33 224 5000	Chiyoda-Ku	311	165.38
Daedalus Designs Imports	20.16.1555	Gerard Hernandez	Sales Rep	+33 14 723 4404	NULL	190	164.61
Danish Wholesale Imports	31 12 3555	Pamela Castillo	Sales Rep	+33 14 723 4404	NULL	534	205.72
Diecast Classics Inc.	2155551555	Steve Patterson	Sales Rep	+1 215 837 0825	MA	425	189.79
Diecast Collectables	6175552555	Julie Firrelli	Sales Rep	+1 215 837 0825	MA	379	143.62
Double Decker Gift Stores, Ltd	(171) 555-7555	Larry Bott	Sales Rep	+44 20 7877 2041	NULL	357	137.19
Down Under Souvenirs, Inc	+64 9 312 5555	Peter Marsh	Sales Rep	+61 2 9264 2451	NULL	647	178.17

```
30 rows in set (0.00 sec)
```

### Question # 6

Display all orders placed in the month of February during any year other than 2004 where the sales representative was employee Leslie Jennings. Hint: this query requires multiple nested queries as the data is contained in multiple tables.

### Result Table

orderNumber	orderDate	shippedDate	customerNumber
10381	2005-02-17	2005-02-18	321
10382	2005-02-17	2005-02-18	124
10384	2005-02-23	2005-02-27	321
10385	2005-02-28	2005-03-01	124

### Your Query

```
SELECT orderNumber, orderDate, shippedDate, customerNumber FROM orders
  WHERE customerNumber IN(
        SELECT customerNumber FROM customers WHERE salesRepEmployeeNumber IN(
            SELECT employeeNumber FROM employees
              WHERE firstName = 'Leslie' AND lastName = 'Jennings'
        )
    )
  AND YEAR(orderDate) != 2004
  AND MONTH(orderDate) = 2
;
```

### Your Result

```
mysql> source challenge06.sql
+-----+-----+-----+-----+
| orderNumber | orderDate | shippedDate | customerNumber |
+-----+-----+-----+-----+
| 10381 | 2005-02-17 | 2005-02-18 | 321 |
| 10382 | 2005-02-17 | 2005-02-18 | 124 |
| 10384 | 2005-02-23 | 2005-02-27 | 321 |
| 10385 | 2005-02-28 | 2005-03-01 | 124 |
+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

### Question # 7 – This one was mine! 😊

The company wants to reward the top three sales reps in the USA. Provide the employeeNumber, employeeName, email, and totalSales (in dollars) for the Top three sales reps ordered from first in sales to third in sales.

#### Result Table

```
mysql> source entry.sql
+-----+-----+-----+-----+
| employeeNumber | employeeName | email | totalSales |
+-----+-----+-----+-----+
| 1165 | Leslie Jennings | ljennings@classicmodelcars.com | 1081530.54 |
| 1323 | George Vanauf | gvanauf@classicmodelcars.com | 669377.05 |
| 1216 | Steve Patterson | spatterson@classicmodelcars.com | 505875.42 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

#### Your Query

```
SELECT employeeNumber, CONCAT(firstName, ' ', lastname) AS 'employeeName', email,
SUM(od.quantityOrdered*od.priceEach) AS 'totalSales'
FROM employees e
JOIN customers c ON e.employeeNumber = c.salesRepEmployeeNumber
JOIN orders o ON c.customerNumber = o.customerNumber
JOIN orderdetails od ON o.orderNumber = od.orderNumber
WHERE officeCode IN (SELECT officeCode FROM offices WHERE country = 'USA')
GROUP BY e.employeeNumber
ORDER BY totalSales DESC
LIMIT 3
;
```

#### Your Result

```
mysql> source challenge07.sql
+-----+-----+-----+-----+
| employeeNumber | employeeName | email | totalSales |
+-----+-----+-----+-----+
| 1165 | Leslie Jennings | ljennings@classicmodelcars.com | 1081530.54 |
| 1323 | George Vanauf | gvanauf@classicmodelcars.com | 669377.05 |
| 1216 | Steve Patterson | spatterson@classicmodelcars.com | 505875.42 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

### Question # 8

English Question: What is the product name and vendor of all vintage cars that customers ordered from Leslie Jennings during the month of January 2005?

### Result Table

- This is actually the table for Leslie Jennings' February 2005 vintage car sales
- I will demonstrate this finding below by giving the tables for JAN 05 and FEB 05

```
+-----+-----+
| productName | productVendor |
+-----+-----+
| 1936 Mercedes-Benz 500K Special Roadster | Studio M Art Models |
| 1913 Ford Model T Speedster | Carousel DieCast Legends |
| 1934 Ford V8 Coupe | Min Lin Diecast |
| 18th Century Vintage Horse Carriage | Red Start Diecast |
| 1917 Maxwell Touring Car | Exoto Designs |
| 1939 Cadillac Limousine | Studio M Art Models |
| 1912 Ford Model T Delivery Wagon | Min Lin Diecast |
| 1940 Ford Delivery Sedan | Carousel DieCast Legends |
| 1936 Chrysler Airflow | Second Gear Diecast |
+-----+-----+
9 rows in set (0.00 sec)
```



## Your Query

**\*FOR JAN 2005\***

```
SELECT productName, productVendor FROM products
  WHERE productLine = 'Vintage Cars'
     AND productCode IN(
         SELECT productCode FROM orderdetails WHERE orderNumber IN(
             SELECT orderNumber FROM orders WHERE YEAR(OrderDate) = 2005
                AND MONTH(OrderDate) = 1
                AND customerNumber IN(
                    SELECT customerNumber FROM customers WHERE salesRepEmployeeNumber IN(
                        SELECT employeeNumber FROM employees WHERE firstName = 'Leslie'
                            AND lastName = 'Jennings'
                    )
                )
            )
        )
    )
;
```

**\*FOR FEB 2005\***

```
SELECT productName, productVendor FROM products
  WHERE productLine = 'Vintage Cars'
     AND productCode IN(
         SELECT productCode FROM orderdetails WHERE orderNumber IN(
             SELECT orderNumber FROM orders WHERE YEAR(OrderDate) = 2005
                AND MONTH(OrderDate) = 2
                AND customerNumber IN(
                    SELECT customerNumber FROM customers WHERE salesRepEmployeeNumber IN(
                        SELECT employeeNumber FROM employees WHERE firstName = 'Leslie'
                            AND lastName = 'Jennings'
                    )
                )
            )
        )
    )
;
```

## Your Result

**\*FOR JAN 2005\***

```
mysql> source challenge08.sql
+-----+-----+
| productName | productVendor |
+-----+-----+
| 1936 Mercedes Benz 500k Roadster | Red Start Diecast |
+-----+-----+
1 row in set (0.00 sec)
```

**\*FOR FEB 2005\***

```
mysql> source challenge08.sql
+-----+-----+
| productName | productVendor |
+-----+-----+
| 1936 Mercedes-Benz 500K Special Roadster | Studio M Art Models |
| 1913 Ford Model T Speedster | Carousel DieCast Legends |
| 1934 Ford V8 Coupe | Min Lin Diecast |
| 18th Century Vintage Horse Carriage | Red Start Diecast |
| 1917 Maxwell Touring Car | Exoto Designs |
| 1939 Cadillac Limousine | Studio M Art Models |
| 1912 Ford Model T Delivery Wagon | Min Lin Diecast |
| 1940 Ford Delivery Sedan | Carousel DieCast Legends |
| 1936 Chrysler Airflow | Second Gear Diecast |
+-----+-----+
9 rows in set (0.00 sec)
```