Practice 1: Table Modifications
Use ALTER TABLE, UPDATE, and DELETE commands to make realistic data structure and content changes.

1. Add a column discountRate DECIMAL(5,2) to the orderdetails table.
   Answer:

```
mysql> SHOW TABLES;
+-------------------------+
| Tables_in_classicmodels |
+-------------------------+
| customers               |
| employees               |
| offices                 |
| orderdetails            |
| orders                  |
| payments                |
| productlines            |
| products                |
+-------------------------+
8 rows in set (0.001 sec)

mysql>
mysql> ALTER TABLE orderdetails
    -> ADD COLUMN discountRate DECIMAL(5,2);
Query OK, 0 rows affected (0.013 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> DESCRIBE orderdetails;
+-----------------+---------------+------+-----+---------+-------+
| Field           | Type          | Null | Key | Default | Extra |
+-----------------+---------------+------+-----+---------+-------+
| orderNumber     | int           | NO   | PRI | NULL    |       |
| productCode     | varchar(15)   | NO   | PRI | NULL    |       |
| quantityOrdered | int           | NO   |     | NULL    |       |
| priceEach       | decimal(10,2) | NO   |     | NULL    |       |
| orderLineNumber | smallint      | NO   |     | NULL    |       |
| discountRate    | decimal(5,2)  | YES  |     | NULL    |       |
+-----------------+---------------+------+-----+---------+-------+
```

2.Add a column region VARCHAR(50) to the offices table.

```
mysql> ALTER TABLE offices
    -> ADD COLUMN region VARCHAR(50);
Query OK, 0 rows affected (0.009 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> DESCRIBE offices;
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| officeCode    | varchar(10)  | NO   | PRI | NULL    |       |
| city          | varchar(50)  | NO   |     | NULL    |       |
| phone         | varchar(50)  | NO   |     | NULL    |       |
| addressLine1  | varchar(50)  | NO   |     | NULL    |       |
| addressLine2  | varchar(50)  | YES  |     | NULL    |       |
| state         | varchar(50)  | YES  |     | NULL    |       |
| country       | varchar(50)  | NO   |     | NULL    |       |
| postalCode    | varchar(15)  | NO   |     | NULL    |       |
| territory     | varchar(10)  | NO   |     | NULL    |       |
| region        | varchar(50)  | YES  |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
10 rows in set (0.002 sec)
```

3.Add a column loyaltyLevel VARCHAR(20) to the customers table.

```
mysql> ALTER TABLE customers
    -> ADD COLUMN loyaltyLevel VARCHAR(20);
Query OK, 0 rows affected (0.013 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> DESCRIBE customers;
+-------------------------+---------------+------+-----+---------+-------+
| Field                   | Type          | Null | Key | Default | Extra |
+-------------------------+---------------+------+-----+---------+-------+
| customerNumber          | int           | NO   | PRI | NULL    |       |
| customerName            | varchar(50)   | NO   |     | NULL    |       |
| contactLastName         | varchar(50)   | NO   |     | NULL    |       |
| contactFirstName        | varchar(50)   | NO   |     | NULL    |       |
| phone                   | varchar(50)   | NO   |     | NULL    |       |
| addressLine1            | varchar(50)   | NO   |     | NULL    |       |
| addressLine2            | varchar(50)   | YES  |     | NULL    |       |
| city                    | varchar(50)   | NO   |     | NULL    |       |
| state                   | varchar(50)   | YES  |     | NULL    |       |
| postalCode              | varchar(15)   | YES  |     | NULL    |       |
| country                 | varchar(50)   | NO   |     | NULL    |       |
| salesRepEmployeeNumber  | int           | YES  | MUL | NULL    |       |
| creditLimit             | decimal(10,2) | YES  |     | NULL    |       |
| loyaltyLevel            | varchar(20)   | YES  |     | NULL    |       |
+-------------------------+---------------+------+-----+---------+-------+
14 rows in set (0.002 sec)
```

4.Update some loyaltyLevel values (e.g., “Bronze”, “Silver”, “Gold”).

```
mysql> UPDATE customers
    -> SET loyaltyLevel = 'Gold'
    -> WHERE customerNumber IN (103, 112, 119);
Query OK, 3 rows affected (0.002 sec)
Rows matched: 3  Changed: 3  Warnings: 0

mysql> UPDATE customers
    -> SET loyaltyLevel = 'Silver'
    -> WHERE customerNumber IN (101, 102, 105);
Query OK, 0 rows affected (0.000 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> UPDATE customers
    -> SET loyaltyLevel = 'Bronze'
    -> WHERE customerNumber IN (106, 107, 108);
Query OK, 0 rows affected (0.001 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> SELECT customerNumber, customerName, loyaltyLevel FROM customers LIMIT 10;
+----------------+------------------------------+--------------+
| customerNumber | customerName                 | loyaltyLevel |
+----------------+------------------------------+--------------+
|            103 | Atelier graphique            | Gold         |
|            112 | Signal Gift Stores           | Gold         |
|            114 | Australian Collectors, Co.   | NULL         |
|            119 | La Rochelle Gifts            | Gold         |
|            121 | Baane Mini Imports           | NULL         |
|            124 | Mini Gifts Distributors Ltd. | NULL         |
|            125 | Havel & Zbyszek Co           | NULL         |
|            128 | Blauer See Auto, Co.         | NULL         |
|            129 | Mini Wheels Co.              | NULL         |
|            131 | Land of Toys Inc.            | NULL         |
+----------------+------------------------------+--------------+
10 rows in set (0.000 sec)
```

5.Update the discountRate in orderdetails to 0.05 (5%) for all orders with quantityabove 50.

```
mysql> UPDATE orderdetails
    -> SET discountRate = 0.05
    -> WHERE quantityOrdered > 50;
Query OK, 66 rows affected (0.004 sec)
Rows matched: 66  Changed: 66  Warnings: 0

mysql> SELECT orderNumber, productCode, quantityOrdered, discountRate
    -> FROM orderdetails
    -> WHERE quantityOrdered > 50
    -> LIMIT 10;
+-------------+-------------+-----------------+--------------+
| orderNumber | productCode | quantityOrdered | discountRate |
+-------------+-------------+-----------------+--------------+
|       10251 | S10_1678    |              59 |         0.05 |
|       10339 | S24_2841    |              55 |         0.05 |
|       10339 | S24_3151    |              55 |         0.05 |
|       10339 | S700_2047   |              55 |         0.05 |
|       10340 | S24_2000    |              55 |         0.05 |
|       10340 | S32_1374    |              55 |         0.05 |
|       10340 | S700_2466   |              55 |         0.05 |
|       10341 | S12_2823    |              55 |         0.05 |
|       10341 | S12_4675    |              55 |         0.05 |
|       10342 | S18_1889    |              55 |         0.05 |
+-------------+-------------+-----------------+--------------+
10 rows in set (0.001 sec)
```

6.Change the city name of one office.

```
mysql> UPDATE offices
    -> SET city = 'San Fran'
    -> WHERE officeCode = 1;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT officeCode, city, country FROM offices;
+------------+----------+------------+
| officeCode | city     | country    |
+------------+----------+------------+
| 1          | San Fran | USA        |
| 2          | Boston   | USA        |
| 3          | NYC      | USA        |
| 4          | Paris    | France     |
| 5          | Tokyo    | Japan      |
| 6          | Sydney   | Australia  |
| 7          | London   | UK         |
+------------+----------+------------+
7 rows in set (0.000 sec)
```

Practice 2: Search

Write and run **15 SELECT queries**.

1. Display all product names and their buy prices.

```
mysql> SELECT productName, buyPrice
    -> FROM products;
+-----------------------------------------+----------+
| productName                             | buyPrice |
+-----------------------------------------+----------+
| 1969 Harley Davidson Ultimate Chopper   |    48.81 |
| 1952 Alpine Renault 1300                |    98.58 |
| 1996 Moto Guzzi 1100i                   |    68.99 |
| 2003 Harley-Davidson Eagle Drag Bike    |    91.02 |
| 1972 Alfa Romeo GTA                     |    85.68 |
| 1962 LanciaA Delta 16V                  |   103.42 |
| 1968 Ford Mustang                       |    95.34 |
| 2001 Ferrari Enzo                       |    95.59 |
| 1958 Setra Bus                          |    77.90 |
| 2002 Suzuki XREO                        |    66.27 |
| 1969 Corvair Monza                      |    89.14 |
| 1968 Dodge Charger                      |    75.16 |
| 1969 Ford Falcon                        |    83.05 |
| 1970 Plymouth Hemi Cuda                 |    31.92 |
| 1957 Chevy Pickup                       |    55.70 |
| 1969 Dodge Charger                      |    58.73 |
| 1940 Ford Pickup Truck                  |    58.33 |
| 1993 Mazda RX-7                         |    83.51 |
| 1937 Lincoln Berline                    |    60.62 |
| 1936 Mercedes-Benz 500K Special Roadster |    24.26 |
| 1965 Aston Martin DB5                   |    65.96 |
| 1980s Black Hawk Helicopter             |    77.27 |
| 1917 Grand Touring Sedan                |    86.70 |
| 1948 Porsche 356-A Roadster             |    53.90 |
| 1995 Honda Civic                        |    93.89 |
| 1998 Chrysler Plymouth Prowler          |   101.51 |
| 1911 Ford Town Car                      |    33.30 |
| 1964 Mercedes Tour Bus                  |    74.86 |
| 1932 Model A Ford J-Coupe               |    58.48 |
| 1926 Ford Fire Engine                   |    24.92 |
| P-51-D Mustang                          |    49.00 |
| 1936 Harley Davidson El Knucklehead     |    24.23 |
| 1928 Mercedes-Benz SSK                  |    72.56 |
| 1999 Indy 500 Monte Carlo SS            |    56.76 |
| 1913 Ford Model T Speedster             |    60.78 |
| 1934 Ford V8 Coupe                      |    34.35 |
| 1999 Yamaha Speed Boat                  |    51.61 |
| 18th Century Vintage Horse Carriage     |    60.74 |
| 1903 Ford Model A                       |    68.30 |
| 1992 Ferrari 360 Spider red             |    77.90 |
| 1985 Toyota Supra                       |    57.01 |
| Collectable Wooden Train                |    67.56 |
| 1969 Dodge Super Bee                    |    49.05 |
| 1917 Maxwell Touring Car                |    57.54 |
| 1976 Ford Gran Torino                   |    73.49 |
| 1948 Porsche Type 356 Roadster          |    62.16 |
| 1957 Vespa GS150                        |    32.95 |
| 1941 Chevrolet Special Deluxe Cabriolet |    64.58 |
| 1970 Triumph Spitfire                   |    91.92 |
| 1932 Alfa Romeo 8C2300 Spider Sport     |    43.26 |
| 1904 Buick Runabout                     |    52.66 |
| 1940s Ford truck                        |    84.76 |
| 1939 Cadillac Limousine                 |    23.14 |
| 1957 Corvette Convertible               |    69.93 |
```

```
| 1939 Cadillac Limousine                 |    23.14 |
| 1957 Corvette Convertible               |    69.93 |
| 1957 Ford Thunderbird                   |    34.21 |
| 1970 Chevy Chevelle SS 454              |    49.24 |
| 1970 Dodge Coronet                      |    32.37 |
| 1997 BMW R 1100 S                       |    60.86 |
| 1966 Shelby Cobra 427 S/C               |    29.18 |
| 1928 British Royal Navy Airplane        |    66.74 |
| 1939 Chevrolet Deluxe Coupe             |    22.57 |
| 1960 BSA Gold Star DBD34                |    37.32 |
| 18th century schooner                   |    82.34 |
| 1938 Cadillac V-16 Presidential Limousine |    20.61 |
| 1962 Volkswagen Microbus                |    61.34 |
| 1982 Ducati 900 Monster                 |    47.10 |
| 1949 Jaguar XK 120                      |    47.25 |
| 1958 Chevy Corvette Limited Edition     |    15.91 |
| 1900s Vintage Bi-Plane                  |    34.25 |
| 1952 Citroen-15CV                       |    72.82 |
| 1982 Lamborghini Diablo                 |    16.24 |
| 1912 Ford Model T Delivery Wagon        |    46.91 |
| 1969 Chevrolet Camaro Z28               |    50.51 |
| 1971 Alpine Renault 1600s               |    38.58 |
| 1937 Horch 930V Limousine               |    26.30 |
| 2002 Chevy Corvette                     |    62.11 |
| 1940 Ford Delivery Sedan                |    48.64 |
| 1956 Porsche 356A Coupe                 |    98.30 |
| Corsair F4U ( Bird Cage)                |    29.34 |
| 1936 Mercedes Benz 500k Roadster        |    21.75 |
| 1992 Porsche Cayenne Turbo Silver       |    69.78 |
| 1936 Chrysler Airflow                   |    57.46 |
| 1900s Vintage Tri-Plane                 |    36.23 |
| 1961 Chevrolet Impala                   |    32.33 |
| 1980's GM Manhattan Express             |    53.93 |
| 1997 BMW F650 ST                        |    66.92 |
| 1982 Ducati 996 R                       |    24.14 |
| 1954 Greyhound Scenicruiser             |    25.98 |
| 1950's Chicago Surface Lines Streetcar  |    26.72 |
| 1996 Peterbilt 379 Stake Bed with Outrigger |    33.61 |
| 1928 Ford Phaeton Deluxe                |    33.02 |
| 1974 Ducati 350 Mk3 Desmo               |    56.13 |
| 1930 Buick Marquette Phaeton            |    27.06 |
| Diamond T620 Semi-Skirted Tanker        |    68.29 |
| 1962 City of Detroit Streetcar          |    37.49 |
| 2002 Yamaha YZR M1                      |    34.17 |
| The Schooner Bluenose                   |    34.00 |
| American Airlines: B767-300             |    51.15 |
| The Mayflower                           |    43.30 |
| HMS Bounty                              |    39.83 |
| America West Airlines B757-200          |    68.80 |
| The USS Constitution Ship               |    33.97 |
| 1982 Camaro Z28                         |    46.53 |
| ATA: B757-300                           |    59.33 |
| F/A 18 Hornet 1/72                      |    54.40 |
| The Titanic                             |    51.09 |
| The Queen Mary                          |    53.63 |
| American Airlines: MD-11S               |    36.27 |
| Boeing X-32A JSF                        |    32.77 |
| Pont Yacht                              |    33.30 |
+-----------------------------------------+----------+
110 rows in set (0.001 sec)
```

2. List all customers' names and their credit limits.

```
mysql> SELECT customerName, creditLimit
    -> FROM customers;
+----------------------------------+-------------+
| customerName                     | creditLimit |
+----------------------------------+-------------+
| Atelier graphique                |    21000.00 |
| Signal Gift Stores               |    71800.00 |
| Australian Collectors, Co.       |   117300.00 |
| La Rochelle Gifts                |   118200.00 |
| Baane Mini Imports               |    81700.00 |
| Mini Gifts Distributors Ltd.     |   210500.00 |
| Havel & Zbyszek Co               |        0.00 |
| Blauer See Auto, Co.             |    59700.00 |
| Mini Wheels Co.                  |    64600.00 |
| Land of Toys Inc.                |   114900.00 |
| Euro+ Shopping Channel           |   227600.00 |
| Volvo Model Replicas, Co         |    53100.00 |
| Danish Wholesale Imports         |    83400.00 |
| Saveley & Henriot, Co.           |   123900.00 |
| Dragon Souveniers, Ltd.          |   103800.00 |
| Muscle Machine Inc               |   138500.00 |
| Diecast Classics Inc.            |   100600.00 |
| Technics Stores Inc.             |    84600.00 |
| Handji Gifts& Co                 |    97900.00 |
| Herkku Gifts                     |    96800.00 |
| American Souvenirs Inc           |        0.00 |
| Porto Imports Co.                |        0.00 |
| Daedalus Designs Imports         |    82900.00 |
| La Corne D'abondance, Co.        |    84300.00 |
| Cambridge Collectables Co.       |    43400.00 |
| Gift Depot Inc.                  |    84300.00 |
| Osaka Souveniers Co.             |    81200.00 |
| Vitachrome Inc.                  |    76400.00 |
| Toys of Finland, Co.             |    96500.00 |
| AV Stores, Co.                   |   136800.00 |
| Clover Collections, Co.          |    69400.00 |
| Auto-Moto Classics Inc.          |    23000.00 |
| UK Collectables, Ltd.            |    92700.00 |
| Canadian Gift Exchange Network   |    90300.00 |
| Online Mini Collectables         |    68700.00 |
| Toys4GrownUps.com                |    90700.00 |
| Asian Shopping Network, Co       |        0.00 |
| Mini Caravy                      |    53800.00 |
| King Kong Collectables, Co.      |    58600.00 |
| Enaco Distributors               |    60300.00 |
| Boards & Toys Co.                |    11000.00 |
| Natürlich Autos                  |        0.00 |
| Heintze Collectables             |   120800.00 |
| Québec Home Shopping Network     |    48700.00 |
| ANG Resellers                    |        0.00 |
| Collectable Mini Designs Co.     |   105000.00 |
| giftsbymail.co.uk                |    93900.00 |
| Alpha Cognac                     |    61100.00 |
| Messner Shopping Network         |        0.00 |
| Amica Models & Co.               |   113000.00 |
| Lyon Souveniers                  |    68100.00 |
| Auto Associés & Cie.             |    77900.00 |
| Toms Spezialitäten, Ltd          |   120400.00 |
| Royal Canadian Collectables, Ltd.|    89600.00 |
| Franken Gifts, Co                |        0.00 |
| Oulu Toy Supplies, Inc.          |    90500.00 |
| Petit Auto                       |    79900.00 |
| Mini Classics                    |   102700.00 |
| Mini Creations Ltd.              |    94500.00 |
| Corporate Gift Ideas Co.         |   105000.00 |
| Down Under Souveniers, Inc       |    88000.00 |
| Stylish Desk Decors, Co.         |    77000.00 |
| Tekni Collectables Inc.          |    43000.00 |
| Australian Gift Network, Co      |    51600.00 |
| Suominen Souveniers              |    98800.00 |
| Cramer Spezialitäten, Ltd        |        0.00 |
| Classic Gift Ideas, Inc          |    81100.00 |
| CAF Imports                      |    59600.00 |
| Men 'R' US Retailers, Ltd.       |    57700.00 |
| Asian Treasures, Inc.            |        0.00 |
| Marseille Mini Autos             |    65000.00 |
| Reims Collectables               |    81100.00 |
| SAR Distributors, Co             |        0.00 |
| GiftsForHim.com                  |    77700.00 |
| Kommission Auto                  |        0.00 |
| Gifts4AllAges.com                |    41900.00 |
| Online Diecast Creations Co.     |   114200.00 |
| Lisboa Souveniers, Inc           |        0.00 |
| Precious Collectables            |        0.00 |
| Collectables For Less Inc.       |    70700.00 |
| Royale Belge                     |    23500.00 |
| Salzburg Collectables            |    71700.00 |
| Cruz & Sons Co.                  |    81500.00 |
| L'ordine Souveniers              |   121400.00 |
| Tokyo Collectables, Ltd          |    94400.00 |
| Auto Canal+ Petit                |    95000.00 |
| Stuttgart Collectable Exchange   |        0.00 |
| Extreme Desk Decorations, Ltd    |    86800.00 |
| Bavarian Collectables Imports, Co.|    77000.00 |
| Classic Legends Inc.             |    67500.00 |
| Feuer Online Stores, Inc         |        0.00 |
| Gift Ideas Corp.                 |    49700.00 |
| Scandinavian Gift Ideas          |   116400.00 |
| The Sharp Gifts Warehouse        |    77600.00 |
| Mini Auto Werke                  |    45300.00 |
| Super Scale Inc.                 |    95400.00 |
| Microscale Inc.                  |    39800.00 |
| Corrida Auto Replicas, Ltd       |   104600.00 |
| Warburg Exchange                 |        0.00 |
| FunGiftIdeas.com                 |    85800.00 |
| Anton Designs, Ltd.              |        0.00 |
| Australian Collectables, Ltd     |    60300.00 |
| Frau da Collezione               |    34800.00 |
| West Coast Collectables Co.      |    55400.00 |
| Mit Vergnügen & Co.              |        0.00 |
| Kremlin Collectables, Co.        |        0.00 |
| Raanan Stores, Inc               |        0.00 |
| Iberia Gift Imports, Corp.       |    65700.00 |
| Motor Mint Distributors Inc.     |    72600.00 |
| Signal Collectibles Ltd.         |    60300.00 |
| Double Decker Gift Stores, Ltd   |    43300.00 |
| Diecast Collectables             |    85100.00 |
| Kelly's Gift Shop                |   110000.00 |
+----------------------------------+-------------+
122 rows in set (0.001 sec)
```

3. Show all employees' names and their job titles.

```
mysql> SELECT firstName, lastName, jobTitle
    -> FROM employees;
+-----------+-----------+----------------------+
| firstName | lastName  | jobTitle             |
+-----------+-----------+----------------------+
| Diane     | Murphy    | President            |
| Mary      | Patterson | VP Sales             |
| Jeff      | Firrelli  | VP Marketing         |
| William   | Patterson | Sales Manager (APAC) |
| Gerard    | Bondur    | Sale Manager (EMEA)  |
| Anthony   | Bow       | Sales Manager (NA)   |
| Leslie    | Jennings  | Sales Rep            |
| Leslie    | Thompson  | Sales Rep            |
| Julie     | Firrelli  | Sales Rep            |
| Steve     | Patterson | Sales Rep            |
| Foon Yue  | Tseng     | Sales Rep            |
| George    | Vanauf    | Sales Rep            |
| Loui      | Bondur    | Sales Rep            |
| Gerard    | Hernandez | Sales Rep            |
| Pamela    | Castillo  | Sales Rep            |
| Larry     | Bott      | Sales Rep            |
| Barry     | Jones     | Sales Rep            |
| Andy      | Fixter    | Sales Rep            |
| Peter     | Marsh     | Sales Rep            |
| Tom       | King      | Sales Rep            |
| Mami      | Nishi     | Sales Rep            |
| Yoshimi   | Kato      | Sales Rep            |
| Martin    | Gerard    | Sales Rep            |
+-----------+-----------+----------------------+
23 rows in set (0.003 sec)
```

4. Retrieve all orders with the status “Shipped.”

```
mysql> SELECT orderNumber, orderDate, requiredDate, shippedDate, status
    -> FROM orders
    -> WHERE status = 'Shipped';
+-----------+-----------+-------------+-----------+--------+
| orderNumber | orderDate  | requiredDate | shippedDate | status  |
+-----------+-----------+-------------+-----------+--------+
|      10100 | 2003-01-06 | 2003-01-13  | 2003-01-10 | Shipped |
|      10101 | 2003-01-09 | 2003-01-18  | 2003-01-11 | Shipped |
|      10102 | 2003-01-10 | 2003-01-18  | 2003-01-14 | Shipped |
|      10103 | 2003-01-29 | 2003-02-07  | 2003-02-02 | Shipped |
|      10104 | 2003-01-31 | 2003-02-09  | 2003-02-01 | Shipped |
|      10105 | 2003-02-11 | 2003-02-21  | 2003-02-12 | Shipped |
|      10106 | 2003-02-17 | 2003-02-24  | 2003-02-21 | Shipped |
|      10107 | 2003-02-24 | 2003-03-03  | 2003-02-26 | Shipped |
|      10108 | 2003-03-03 | 2003-03-12  | 2003-03-08 | Shipped |
|      10109 | 2003-03-10 | 2003-03-19  | 2003-03-11 | Shipped |
|      10110 | 2003-03-18 | 2003-03-24  | 2003-03-20 | Shipped |
|      10111 | 2003-03-25 | 2003-03-31  | 2003-03-30 | Shipped |
|      10112 | 2003-03-24 | 2003-04-03  | 2003-03-29 | Shipped |
|      10113 | 2003-03-26 | 2003-04-02  | 2003-03-27 | Shipped |
|      10114 | 2003-04-01 | 2003-04-07  | 2003-04-02 | Shipped |
|      10115 | 2003-04-04 | 2003-04-12  | 2003-04-07 | Shipped |
|      10116 | 2003-04-11 | 2003-04-19  | 2003-04-13 | Shipped |
|      10117 | 2003-04-16 | 2003-04-24  | 2003-04-17 | Shipped |
|      10118 | 2003-04-21 | 2003-04-29  | 2003-04-26 | Shipped |
|      10119 | 2003-04-28 | 2003-05-05  | 2003-05-02 | Shipped |
|      10120 | 2003-04-29 | 2003-05-08  | 2003-05-01 | Shipped |
|      10121 | 2003-05-07 | 2003-05-13  | 2003-05-13 | Shipped |
|      10122 | 2003-05-08 | 2003-05-16  | 2003-05-13 | Shipped |
|      10123 | 2003-05-20 | 2003-05-29  | 2003-05-22 | Shipped |
|      10124 | 2003-05-21 | 2003-05-29  | 2003-05-25 | Shipped |
|      10125 | 2003-05-21 | 2003-05-27  | 2003-05-24 | Shipped |
|      10126 | 2003-05-28 | 2003-06-07  | 2003-06-02 | Shipped |
|      10127 | 2003-06-03 | 2003-06-09  | 2003-06-06 | Shipped |
|      10128 | 2003-06-06 | 2003-06-12  | 2003-06-11 | Shipped |
|      10129 | 2003-06-12 | 2003-06-18  | 2003-06-14 | Shipped |
```

```
|      10383 | 2005-02-22 | 2005-03-02  | 2005-02-25 | Shipped |
|      10384 | 2005-02-23 | 2005-03-06  | 2005-02-27 | Shipped |
|      10385 | 2005-02-28 | 2005-03-09  | 2005-03-01 | Shipped |
|      10387 | 2005-03-02 | 2005-03-09  | 2005-03-06 | Shipped |
|      10388 | 2005-03-03 | 2005-03-11  | 2005-03-09 | Shipped |
|      10389 | 2005-03-03 | 2005-03-09  | 2005-03-08 | Shipped |
|      10390 | 2005-03-04 | 2005-03-11  | 2005-03-07 | Shipped |
|      10391 | 2005-03-09 | 2005-03-20  | 2005-03-15 | Shipped |
|      10392 | 2005-03-10 | 2005-03-18  | 2005-03-12 | Shipped |
|      10393 | 2005-03-11 | 2005-03-22  | 2005-03-14 | Shipped |
|      10394 | 2005-03-15 | 2005-03-25  | 2005-03-19 | Shipped |
|      10395 | 2005-03-17 | 2005-03-24  | 2005-03-23 | Shipped |
|      10396 | 2005-03-23 | 2005-04-02  | 2005-03-28 | Shipped |
|      10397 | 2005-03-28 | 2005-04-09  | 2005-04-01 | Shipped |
|      10398 | 2005-03-30 | 2005-04-09  | 2005-03-31 | Shipped |
|      10399 | 2005-04-01 | 2005-04-12  | 2005-04-03 | Shipped |
|      10400 | 2005-04-01 | 2005-04-11  | 2005-04-04 | Shipped |
|      10402 | 2005-04-07 | 2005-04-14  | 2005-04-12 | Shipped |
|      10403 | 2005-04-08 | 2005-04-18  | 2005-04-11 | Shipped |
|      10404 | 2005-04-08 | 2005-04-14  | 2005-04-11 | Shipped |
|      10405 | 2005-04-14 | 2005-04-24  | 2005-04-20 | Shipped |
|      10408 | 2005-04-22 | 2005-04-29  | 2005-04-27 | Shipped |
|      10409 | 2005-04-23 | 2005-05-05  | 2005-04-24 | Shipped |
|      10410 | 2005-04-29 | 2005-05-10  | 2005-04-30 | Shipped |
|      10411 | 2005-05-01 | 2005-05-08  | 2005-05-06 | Shipped |
|      10412 | 2005-05-03 | 2005-05-13  | 2005-05-05 | Shipped |
|      10413 | 2005-05-05 | 2005-05-14  | 2005-05-09 | Shipped |
|      10416 | 2005-05-10 | 2005-05-16  | 2005-05-14 | Shipped |
|      10418 | 2005-05-16 | 2005-05-24  | 2005-05-20 | Shipped |
|      10419 | 2005-05-17 | 2005-05-28  | 2005-05-19 | Shipped |
+-----------+-----------+-------------+-----------+--------+
303 rows in set (0.003 sec)
```

5. Show all customers in the country “Canada.”

```
mysql> SELECT customerNumber, customerName, country
    -> FROM customers
    -> WHERE country = 'Canada';
+----------------+----------------------------------------+---------+
| customerNumber | customerName                           | country |
+----------------+----------------------------------------+---------+
|            202 | Canadian Gift Exchange Network         | Canada  |
|            233 | Québec Home Shopping Network           | Canada  |
|            260 | Royal Canadian Collectables, Ltd.      | Canada  |
+----------------+----------------------------------------+---------+
3 rows in set (0.001 sec)
```

6. Display customers and the names of the employees who serve them.

```
mysql> SELECT c.customerName, e.firstName, e.lastName
    -> FROM customers c
    -> JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber;
+----------------------------------+-----------+-----------+
| customerName                     | firstName | lastName  |
+----------------------------------+-----------+-----------+
| Atelier graphique                | Gerard    | Hernandez |
| Signal Gift Stores               | Leslie    | Thompson  |
| Australian Collectors, Co.       | Andy      | Fixter    |
| La Rochelle Gifts                | Gerard    | Hernandez |
| Baane Mini Imports               | Barry     | Jones     |
| Mini Gifts Distributors Ltd.     | Leslie    | Jennings  |
| Blauer See Auto, Co.             | Barry     | Jones     |
| Mini Wheels Co.                  | Leslie    | Jennings  |
| Land of Toys Inc.                | George    | Vanauf    |
| Euro+ Shopping Channel           | Gerard    | Hernandez |
| Volvo Model Replicas, Co         | Barry     | Jones     |
| Danish Wholesale Imports         | Pamela    | Castillo  |
| Saveley & Henriot, Co.           | Loui      | Bondur    |
| Dragon Souveniers, Ltd.          | Mami      | Nishi     |
| Muscle Machine Inc               | Foon Yue  | Tseng     |
| Diecast Classics Inc.            | Steve     | Patterson |
| Technics Stores Inc.             | Leslie    | Jennings  |
| Handji Gifts& Co                 | Peter     | Marsh     |
| Herkku Gifts                     | Barry     | Jones     |
| American Souvenirs Inc           | Foon Yue  | Tseng     |
| Daedalus Designs Imports         | Gerard    | Hernandez |
| La Corne D'abondance, Co.        | Loui      | Bondur    |
| Cambridge Collectables Co.       | Julie     | Firrelli  |
| Gift Depot Inc.                  | George    | Vanauf    |
| Osaka Souveniers Co.             | Mami      | Nishi     |
| Vitachrome Inc.                  | Foon Yue  | Tseng     |
| Toys of Finland, Co.             | Larry     | Bott      |
| AV Stores, Co.                   | Larry     | Bott      |
| Clover Collections, Co.          | Barry     | Jones     |
| Auto-Moto Classics Inc.          | Steve     | Patterson |
| UK Collectables, Ltd.            | Larry     | Bott      |
| Canadian Gift Exchange Network   | George    | Vanauf    |
| Online Mini Collectables         | Julie     | Firrelli  |
| Toys4GrownUps.com                | Leslie    | Thompson  |
| Mini Caravy                      | Gerard    | Hernandez |
| King Kong Collectables, Co.      | Mami      | Nishi     |
| Enaco Distributors               | Martin    | Gerard    |
| Boards & Toys Co.                | Leslie    | Thompson  |
| Heintze Collectables             | Pamela    | Castillo  |
| Québec Home Shopping Network     | Foon Yue  | Tseng     |
| Collectable Mini Designs Co.     | Leslie    | Thompson  |
| giftsbymail.co.uk                | Larry     | Bott      |
| Alpha Cognac                     | Gerard    | Hernandez |
| Amica Models & Co.               | Pamela    | Castillo  |
| Lyon Souveniers                  | Loui      | Bondur    |
| Auto Associés & Cie.             | Gerard    | Hernandez |
| Toms Spezialitäten, Ltd          | Barry     | Jones     |
| Royal Canadian Collectables, Ltd. | George    | Vanauf    |
| Anna's Decorations, Ltd          | Andy      | Fixter    |
| Rovelli Gifts                    | Pamela    | Castillo  |
| Souveniers And Things Co.        | Andy      | Fixter    |
| Marta's Replicas Co.             | Steve     | Patterson |
| Lyon Souveniers                  | Loui      | Bondur    |
| Auto Associés & Cie.             | Gerard    | Hernandez |
| Toms Spezialitäten, Ltd          | Barry     | Jones     |
| Royal Canadian Collectables, Ltd. | George    | Vanauf    |
| Anna's Decorations, Ltd          | Andy      | Fixter    |
| Rovelli Gifts                    | Pamela    | Castillo  |
| Souveniers And Things Co.        | Andy      | Fixter    |
| Marta's Replicas Co.             | Steve     | Patterson |
| Vida Sport, Ltd                  | Martin    | Gerard    |
| Norway Gifts By Mail, Co.        | Barry     | Jones     |
| Oulu Toy Supplies, Inc.          | Larry     | Bott      |
| Petit Auto                       | Pamela    | Castillo  |
| Mini Classics                    | George    | Vanauf    |
| Mini Creations Ltd.              | Julie     | Firrelli  |
| Corporate Gift Ideas Co.         | Leslie    | Jennings  |
| Down Under Souveniers, Inc       | Peter     | Marsh     |
| Stylish Desk Decors, Co.         | Larry     | Bott      |
| Tekni Collectables Inc.          | George    | Vanauf    |
| Australian Gift Network, Co      | Andy      | Fixter    |
| Suominen Souveniers              | Larry     | Bott      |
| Classic Gift Ideas, Inc          | Julie     | Firrelli  |
| CAF Imports                      | Martin    | Gerard    |
| Men 'R' US Retailers, Ltd.       | Leslie    | Thompson  |
| Marseille Mini Autos             | Loui      | Bondur    |
| Reims Collectables               | Loui      | Bondur    |
| GiftsForHim.com                  | Peter     | Marsh     |
| Gifts4AllAges.com                | Steve     | Patterson |
| Online Diecast Creations Co.     | Steve     | Patterson |
| Precious Collectables            | Martin    | Gerard    |
| Collectables For Less Inc.       | Julie     | Firrelli  |
| Royale Belge                     | Pamela    | Castillo  |
| Salzburg Collectables            | Pamela    | Castillo  |
| Cruz & Sons Co.                  | Mami      | Nishi     |
| L'ordine Souveniers              | Pamela    | Castillo  |
| Tokyo Collectables, Ltd          | Mami      | Nishi     |
| Auto Canal+ Petit                | Loui      | Bondur    |
| Extreme Desk Decorations, Ltd    | Peter     | Marsh     |
| Bavarian Collectables Imports, Co. | Barry     | Jones     |
| Classic Legends Inc.             | Foon Yue  | Tseng     |
| Gift Ideas Corp.                 | George    | Vanauf    |
| Scandinavian Gift Ideas          | Barry     | Jones     |
| The Sharp Gifts Warehouse        | Leslie    | Jennings  |
| Mini Auto Werke                  | Pamela    | Castillo  |
| Super Scale Inc.                 | Foon Yue  | Tseng     |
| Microscale Inc.                  | Foon Yue  | Tseng     |
| Corrida Auto Replicas, Ltd       | Martin    | Gerard    |
| FunGiftIdeas.com                 | Steve     | Patterson |
| Australian Collectables, Ltd     | Andy      | Fixter    |
| Frau da Collezione               | Pamela    | Castillo  |
| West Coast Collectables Co.      | Leslie    | Thompson  |
| Iberia Gift Imports, Corp.       | Martin    | Gerard    |
| Motor Mint Distributors Inc.     | George    | Vanauf    |
| Signal Collectibles Ltd.         | Leslie    | Jennings  |
| Double Decker Gift Stores, Ltd   | Larry     | Bott      |
| Diecast Collectables             | Julie     | Firrelli  |
| Kelly's Gift Shop                | Peter     | Marsh     |
+----------------------------------+-----------+-----------+
100 rows in set (0.001 sec)
```

7. List all orders along with the total number of products in each order.

```
mysql> SELECT orderNumber, SUM(quantityOrdered) AS totalProducts
    -> FROM orderdetails
    -> GROUP BY orderNumber;
+-------------+---------------+
| orderNumber | totalProducts |
+-------------+---------------+
|       10100 |           151 |
|       10101 |           142 |
|       10102 |            80 |
|       10103 |           541 |
|       10104 |           443 |
|       10105 |           545 |
|       10106 |           675 |
|       10107 |           229 |
|       10108 |           561 |
|       10109 |           212 |
|       10110 |           570 |
|       10111 |           217 |
|       10112 |            52 |
|       10113 |           143 |
|       10114 |           351 |
|       10115 |           210 |
|       10116 |            27 |
|       10117 |           402 |
|       10118 |            36 |
|       10119 |           442 |
|       10120 |           525 |
|       10121 |           185 |
|       10122 |           545 |
|       10123 |           156 |
|       10124 |           448 |
|       10125 |            66 |
|       10126 |           617 |
|       10127 |           540 |
|       10128 |           157 |
|       10129 |           349 |
|       10130 |            73 |
|       10131 |           244 |
|       10132 |            36 |
|       10133 |           286 |
|       10134 |           227 |
|       10135 |           607 |
|       10136 |           102 |
|       10137 |           138 |
|       10138 |           420 |
|       10139 |           266 |
|       10140 |           385 |
|       10141 |           290 |
|       10142 |           577 |
|       10143 |           524 |
|       10144 |            20 |
|       10145 |           563 |
|       10146 |            76 |
|       10147 |           341 |
|       10148 |           430 |
|       10149 |           367 |
|       10150 |           380 |
|       10151 |           342 |
|       10152 |           116 |
|       10153 |           458 |
|       10370 |           256 |
|       10371 |           382 |
|       10372 |           321 |
|       10373 |           605 |
|       10374 |           209 |
|       10375 |           560 |
|       10376 |            35 |
|       10377 |           215 |
|       10378 |           377 |
|       10379 |           159 |
|       10380 |           438 |
|       10381 |           317 |
|       10382 |           451 |
|       10383 |           416 |
|       10384 |           154 |
|       10385 |            62 |
|       10386 |           650 |
|       10387 |            44 |
|       10388 |           315 |
|       10389 |           316 |
|       10390 |           603 |
|       10391 |           339 |
|       10392 |           102 |
|       10393 |           355 |
|       10394 |           239 |
|       10395 |           156 |
|       10396 |           287 |
|       10397 |           172 |
|       10398 |           629 |
|       10399 |           319 |
|       10400 |           356 |
|       10401 |           597 |
|       10402 |           159 |
|       10403 |           371 |
|       10404 |           447 |
|       10405 |           336 |
|       10406 |           174 |
|       10407 |           571 |
|       10408 |            15 |
|       10409 |            67 |
|       10410 |           424 |
|       10411 |           285 |
|       10412 |           455 |
|       10413 |           229 |
|       10414 |           609 |
|       10415 |           164 |
|       10416 |           460 |
|       10417 |           259 |
|       10418 |           299 |
|       10419 |           509 |
|       10420 |           532 |
|       10421 |            75 |
|       10422 |            76 |
|       10423 |           111 |
|       10424 |           269 |
|       10425 |           427 |
+-------------+---------------+
326 rows in set (0.002 sec)
```

8. Show all products and their product line names.

```
mysql> SELECT p.productName, pl.productLine
    -> FROM products p
    -> JOIN productlines pl ON p.productLine = pl.productLine;
+----------------------------------------+-----------------+
| productName                            | productLine     |
+----------------------------------------+-----------------+
| 1952 Alpine Renault 1300               | Classic Cars    |
| 1972 Alfa Romeo GTA                    | Classic Cars    |
| 1962 LanciaA Delta 16V                 | Classic Cars    |
| 1968 Ford Mustang                      | Classic Cars    |
| 2001 Ferrari Enzo                      | Classic Cars    |
| 1969 Corvair Monza                     | Classic Cars    |
| 1968 Dodge Charger                     | Classic Cars    |
| 1969 Ford Falcon                       | Classic Cars    |
| 1970 Plymouth Hemi Cuda                | Classic Cars    |
| 1969 Dodge Charger                     | Classic Cars    |
| 1993 Mazda RX-7                        | Classic Cars    |
| 1965 Aston Martin DB5                  | Classic Cars    |
| 1948 Porsche 356-A Roadster            | Classic Cars    |
| 1995 Honda Civic                       | Classic Cars    |
| 1998 Chrysler Plymouth Prowler         | Classic Cars    |
| 1999 Indy 500 Monte Carlo SS           | Classic Cars    |
| 1992 Ferrari 360 Spider red            | Classic Cars    |
| 1985 Toyota Supra                      | Classic Cars    |
| 1969 Dodge Super Bee                   | Classic Cars    |
| 1976 Ford Gran Torino                  | Classic Cars    |
| 1948 Porsche Type 356 Roadster         | Classic Cars    |
| 1970 Triumph Spitfire                  | Classic Cars    |
| 1957 Corvette Convertible              | Classic Cars    |
| 1957 Ford Thunderbird                  | Classic Cars    |
| 1970 Chevy Chevelle SS 454             | Classic Cars    |
| 1970 Dodge Coronet                     | Classic Cars    |
| 1966 Shelby Cobra 427 S/C              | Classic Cars    |
| 1949 Jaguar XK 120                     | Classic Cars    |
| 1958 Chevy Corvette Limited Edition    | Classic Cars    |
| 1952 Citroen-15CV                      | Classic Cars    |
| 1982 Lamborghini Diablo                | Classic Cars    |
| 1969 Chevrolet Camaro Z28              | Classic Cars    |
| 1971 Alpine Renault 1600s              | Classic Cars    |
| 2002 Chevy Corvette                    | Classic Cars    |
| 1956 Porsche 356A Coupe                | Classic Cars    |
| 1992 Porsche Cayenne Turbo Silver      | Classic Cars    |
| 1961 Chevrolet Impala                  | Classic Cars    |
| 1982 Camaro Z28                        | Classic Cars    |
| 1969 Harley Davidson Ultimate Chopper  | Motorcycles     |
| 1996 Moto Guzzi 1100i                  | Motorcycles     |
| 2003 Harley-Davidson Eagle Drag Bike   | Motorcycles     |
| 2002 Suzuki XREO                       | Motorcycles     |
| 1936 Harley Davidson El Knucklehead    | Motorcycles     |
| 1957 Vespa GS150                       | Motorcycles     |
| 1997 BMW R 1100 S                      | Motorcycles     |
| 1960 BSA Gold Star DBD34               | Motorcycles     |
| 1982 Ducati 900 Monster                | Motorcycles     |
| 1997 BMW F650 ST                       | Motorcycles     |
| 1982 Ducati 996 R                      | Motorcycles     |
| 1974 Ducati 350 Mk3 Desmo              | Motorcycles     |
| 2002 Yamaha YZR M1                     | Motorcycles     |
| 1980s Black Hawk Helicopter            | Planes          |
| P-51-D Mustang                         | Planes          |
| 1900s Vintage Bi-Plane                 | Planes          |
| Corsair F4U ( Bird Cage)               | Planes          |
| 1900s Vintage Tri-Plane                | Planes          |
| American Airlines: B767-300            | Planes          |
| America West Airlines B757-200         | Planes          |
| ATA: B757-300                          | Planes          |
| F/A 18 Hornet 1/72                     | Planes          |
| American Airlines: MD-11S              | Planes          |
| Boeing X-32A JSF                       | Planes          |
| 1999 Yamaha Speed Boat                 | Ships           |
| 18th century schooner                  | Ships           |
| The Schooner Bluenose                  | Ships           |
| The Mayflower                          | Ships           |
| HMS Bounty                             | Ships           |
| The USS Constitution Ship              | Ships           |
| The Titanic                            | Ships           |
| The Queen Mary                         | Ships           |
| Pont Yacht                             | Ships           |
| Collectable Wooden Train               | Trains          |
| 1950's Chicago Surface Lines Streetcar | Trains          |
| 1962 City of Detroit Streetcar         | Trains          |
| 1958 Setra Bus                         | Trucks and Buses |
| 1957 Chevy Pickup                      | Trucks and Buses |
| 1940 Ford Pickup Truck                 | Trucks and Buses |
| 1964 Mercedes Tour Bus                 | Trucks and Buses |
| 1926 Ford Fire Engine                  | Trucks and Buses |
| 1940s Ford truck                       | Trucks and Buses |
| 1962 Volkswagen Microbus               | Trucks and Buses |
| 1980's GM Manhattan Express            | Trucks and Buses |
| 1954 Greyhound Scenicruiser            | Trucks and Buses |
| 1996 Peterbilt 379 Stake Bed with Outrigger | Trucks and Buses |
| Diamond T620 Semi-Skirted Tanker       | Trucks and Buses |
| 1937 Lincoln Berline                   | Vintage Cars    |
| 1936 Mercedes-Benz 500K Special Roadster | Vintage Cars    |
| 1917 Grand Touring Sedan               | Vintage Cars    |
| 1911 Ford Town Car                     | Vintage Cars    |
| 1932 Model A Ford J-Coupe              | Vintage Cars    |
| 1928 Mercedes-Benz SSK                 | Vintage Cars    |
| 1913 Ford Model T Speedster            | Vintage Cars    |
| 1934 Ford V8 Coupe                     | Vintage Cars    |
| 18th Century Vintage Horse Carriage    | Vintage Cars    |
| 1903 Ford Model A                      | Vintage Cars    |
| 1917 Maxwell Touring Car               | Vintage Cars    |
| 1941 Chevrolet Special Deluxe Cabriolet | Vintage Cars    |
| 1932 Alfa Romeo 8C2300 Spider Sport    | Vintage Cars    |
| 1904 Buick Runabout                    | Vintage Cars    |
| 1939 Cadillac Limousine                | Vintage Cars    |
| 1939 Chevrolet Deluxe Coupe            | Vintage Cars    |
| 1938 Cadillac V-16 Presidential Limousine | Vintage Cars    |
| 1912 Ford Model T Delivery Wagon       | Vintage Cars    |
| 1937 Horch 930V Limousine              | Vintage Cars    |
| 1940 Ford Delivery Sedan               | Vintage Cars    |
| 1936 Mercedes Benz 500k Roadster       | Vintage Cars    |
| 1936 Chrysler Airflow                  | Vintage Cars    |
| 1928 Ford Phaeton Deluxe               | Vintage Cars    |
| 1930 Buick Marquette Phaeton           | Vintage Cars    |
+----------------------------------------+-----------------+
110 rows in set (0.001 sec)
```

9. List all customers with their corresponding payments.

```
mysql> SELECT c.customerName, p.checkNumber, p.paymentDate, p.amount
    -> FROM customers c
    -> JOIN payments p ON c.customerNumber = p.customerNumber;
+----------------------------------+-------------+-------------+----------+
| customerName                     | checkNumber | paymentDate | amount   |
+----------------------------------+-------------+-------------+----------+
| Atelier graphique                | HQ336336    | 2004-10-19  |  6066.78 |
| Atelier graphique                | JM555205    | 2003-06-05  | 14571.44 |
| Atelier graphique                | OM314933    | 2004-12-18  |  1676.14 |
| Signal Gift Stores               | BO864823    | 2004-12-17  | 14191.12 |
| Signal Gift Stores               | HQ55022     | 2003-06-06  | 32641.98 |
| Signal Gift Stores               | ND748579    | 2004-08-20  | 33347.88 |
| Australian Collectors, Co.       | GG31455     | 2003-05-20  | 45864.03 |
| Australian Collectors, Co.       | MA765515    | 2004-12-15  | 82261.22 |
| Australian Collectors, Co.       | NP603840    | 2003-05-31  |  7565.08 |
| Australian Collectors, Co.       | NR27552     | 2004-03-10  | 44894.74 |
| La Rochelle Gifts                | DB933704    | 2004-11-14  | 19501.82 |
| La Rochelle Gifts                | LN373447    | 2004-08-08  | 47924.19 |
| La Rochelle Gifts                | NG94694     | 2005-02-22  | 49523.67 |
| Baane Mini Imports               | DB889831    | 2003-02-16  | 50218.95 |
| Baane Mini Imports               | FD317790    | 2003-10-28  |  1491.38 |
| Baane Mini Imports               | KI831359    | 2004-11-04  | 17876.32 |
| Baane Mini Imports               | MA302151    | 2004-11-28  | 34638.14 |
| Mini Gifts Distributors Ltd.     | AE215433    | 2005-03-05  | 101244.59 |
| Mini Gifts Distributors Ltd.     | BG255406    | 2004-08-28  | 85410.87 |
| Mini Gifts Distributors Ltd.     | CQ287967    | 2003-04-11  | 11044.30 |
| Mini Gifts Distributors Ltd.     | ET64396     | 2005-04-16  | 83598.04 |
| Mini Gifts Distributors Ltd.     | HI366474    | 2004-12-27  | 47142.70 |
| Mini Gifts Distributors Ltd.     | HR86578     | 2004-11-02  | 55639.66 |
| Mini Gifts Distributors Ltd.     | KI131716    | 2003-08-15  | 111654.40 |
| Mini Gifts Distributors Ltd.     | LF217299    | 2004-03-26  | 43369.30 |
| Mini Gifts Distributors Ltd.     | NT141748    | 2003-11-25  | 45084.38 |
| Blauer See Auto, Co.             | DI925118    | 2003-01-28  | 10549.01 |
| Blauer See Auto, Co.             | FA465482    | 2003-10-18  | 24101.81 |
| Blauer See Auto, Co.             | FH668230    | 2004-03-24  | 33820.62 |
| Blauer See Auto, Co.             | IP383901    | 2004-11-18  |  7466.32 |
| Mini Wheels Co.                  | DM826140    | 2004-12-08  | 26248.78 |
| Mini Wheels Co.                  | ID449593    | 2003-12-11  | 23923.93 |
| Mini Wheels Co.                  | PI42991     | 2003-04-09  | 16537.85 |
| Land of Toys Inc.                | CL442705    | 2003-03-12  | 22292.62 |
| Land of Toys Inc.                | MA724562    | 2004-12-02  | 50025.35 |
| Land of Toys Inc.                | NB445135    | 2004-09-11  | 35321.97 |
| Euro+ Shopping Channel           | AU364101    | 2003-07-19  | 36251.03 |
| Euro+ Shopping Channel           | DB583216    | 2004-11-01  | 36140.38 |
| Euro+ Shopping Channel           | DL460618    | 2005-05-19  | 46895.48 |
| Euro+ Shopping Channel           | HJ32686     | 2004-01-30  | 59830.55 |
| Euro+ Shopping Channel           | ID10962     | 2004-12-31  | 116208.40 |
| Euro+ Shopping Channel           | IN446258    | 2005-03-25  | 65071.26 |
| Euro+ Shopping Channel           | JE105477    | 2005-03-18  | 120166.58 |
| Euro+ Shopping Channel           | JN355280    | 2003-10-26  | 49539.37 |
| Euro+ Shopping Channel           | JN722010    | 2003-02-25  | 40206.20 |
| Euro+ Shopping Channel           | KT52578     | 2003-12-09  | 63843.55 |
| Euro+ Shopping Channel           | MC46946     | 2004-07-09  | 35420.74 |
| Euro+ Shopping Channel           | MF629602    | 2004-08-16  | 20009.53 |
| Euro+ Shopping Channel           | NU627706    | 2004-05-17  | 26155.91 |
| Volvo Model Replicas, Co         | IR846303    | 2004-12-12  | 36005.71 |
| Volvo Model Replicas, Co         | LA685678    | 2003-04-09  |  7674.94 |
| Danish Wholesale Imports         | CN328545    | 2004-07-03  |  4710.73 |
| Danish Wholesale Imports         | ED39322     | 2004-04-26  | 28211.70 |
| Danish Wholesale Imports         | HR182688    | 2004-12-01  | 20564.86 |
| Cruz & Sons Co.                  | CP804873    | 2004-11-19  | 15822.84 |
| Cruz & Sons Co.                  | EK785462    | 2003-03-09  | 51001.22 |
| L'ordine Souveniers              | DO106109    | 2003-11-18  | 38524.29 |
| L'ordine Souveniers              | HG438769    | 2004-07-18  | 51619.02 |
| Tokyo Collectables, Ltd          | AJ478695    | 2005-02-14  | 33967.73 |
| Tokyo Collectables, Ltd          | DO787644    | 2004-06-21  | 22037.91 |
| Tokyo Collectables, Ltd          | JPMR4544    | 2005-05-18  |   615.45 |
| Tokyo Collectables, Ltd          | KB54275     | 2004-11-29  | 48927.64 |
| Auto Canal+ Petit                | BJMPR4545   | 2005-04-23  | 12190.85 |
| Auto Canal+ Petit                | HJ217687    | 2004-01-28  | 49165.16 |
| Auto Canal+ Petit                | NA197101    | 2004-06-17  | 25080.96 |
| Extreme Desk Decorations, Ltd    | GH197075    | 2004-07-25  | 35034.57 |
| Extreme Desk Decorations, Ltd    | PJ434867    | 2004-04-14  | 31670.37 |
| Bavarian Collectables Imports, Co. | ER54537   | 2004-09-28  | 31310.09 |
| Classic Legends Inc.             | KF480160    | 2004-12-07  | 25505.98 |
| Classic Legends Inc.             | LM271923    | 2003-04-16  | 21665.98 |
| Classic Legends Inc.             | OA595449    | 2003-10-31  | 22042.37 |
| Gift Ideas Corp.                 | AO757239    | 2003-09-15  |  6631.36 |
| Gift Ideas Corp.                 | ER615123    | 2003-06-25  | 17032.29 |
| Gift Ideas Corp.                 | OU516561    | 2004-12-17  | 26304.13 |
| Scandinavian Gift Ideas          | FS299615    | 2005-04-18  | 27966.54 |
| Scandinavian Gift Ideas          | KR822727    | 2004-09-30  | 48809.90 |
| The Sharp Gifts Warehouse        | EF485824    | 2004-06-21  | 59551.38 |
| Mini Auto Werke                  | ED473873    | 2003-11-15  | 27121.90 |
| Mini Auto Werke                  | FN640986    | 2003-11-20  | 15130.97 |
| Mini Auto Werke                  | HG635467    | 2005-05-03  |  8807.12 |
| Super Scale Inc.                 | HA777606    | 2003-12-05  | 38139.18 |
| Super Scale Inc.                 | IR662429    | 2004-05-12  | 32239.47 |
| Microscale Inc.                  | GJ715659    | 2004-11-13  | 27550.51 |
| Microscale Inc.                  | MO743231    | 2004-04-30  |  1679.92 |
| Corrida Auto Replicas, Ltd       | DD995006    | 2004-11-15  | 33145.56 |
| Corrida Auto Replicas, Ltd       | NA377824    | 2004-02-06  | 22162.61 |
| Corrida Auto Replicas, Ltd       | OO606861    | 2003-06-13  | 57131.92 |
| FunGiftIdeas.com                 | ED203908    | 2005-04-15  | 30293.77 |
| FunGiftIdeas.com                 | GC60330     | 2003-11-08  |  9977.85 |
| FunGiftIdeas.com                 | PE176846    | 2004-11-27  | 48355.87 |
| Australian Collectables, Ltd     | AB661578    | 2004-07-28  |  9415.13 |
| Australian Collectables, Ltd     | CO645196    | 2003-12-10  | 35505.63 |
| Frau da Collezione               | LL427009    | 2004-02-17  |  7612.06 |
| Frau da Collezione               | PC688499    | 2003-10-27  | 17746.26 |
| West Coast Collectables Co.      | JP113227    | 2003-12-09  |  7678.25 |
| West Coast Collectables Co.      | PB951268    | 2004-02-13  | 36070.47 |
| Iberia Gift Imports, Corp.       | GK294076    | 2004-10-26  |  3474.66 |
| Iberia Gift Imports, Corp.       | JH546765    | 2003-11-29  | 47513.19 |
| Motor Mint Distributors Inc.     | BL66528     | 2004-04-14  |  5899.38 |
| Motor Mint Distributors Inc.     | HS86661     | 2004-11-23  | 45994.07 |
| Motor Mint Distributors Inc.     | JB117768    | 2003-03-20  | 25833.14 |
| Signal Collectibles Ltd.         | AH612904    | 2003-09-28  | 29997.09 |
| Signal Collectibles Ltd.         | PT550181    | 2004-02-29  | 12573.28 |
| Double Decker Gift Stores, Ltd   | OC773849    | 2003-12-04  | 22275.73 |
| Double Decker Gift Stores, Ltd   | PO860906    | 2004-01-31  |  7310.42 |
| Diecast Collectables             | BH167026    | 2003-12-26  | 59265.14 |
| Diecast Collectables             | FN155234    | 2004-05-14  |  6276.60 |
| Kelly's Gift Shop                | EU531600    | 2005-05-25  | 30253.75 |
| Kelly's Gift Shop                | MB342426    | 2003-07-16  | 32077.44 |
| Kelly's Gift Shop                | MN89921     | 2004-12-31  | 52166.00 |
+----------------------------------+-------------+-------------+----------+
273 rows in set (0.002 sec)
```

10. Retrieve all employees and the city where their office is located.

```
mysql> SELECT e.firstName, e.lastName, e.jobTitle, o.city
    -> FROM employees e
    -> JOIN offices o ON e.officeCode = o.officeCode;
+-----------+-----------+----------------------+----------+
| firstName | lastName  | jobTitle             | city     |
+-----------+-----------+----------------------+----------+
| Diane     | Murphy    | President            | San Fran |
| Mary      | Patterson | VP Sales             | San Fran |
| Jeff      | Firrelli  | VP Marketing         | San Fran |
| Anthony   | Bow       | Sales Manager (NA)   | San Fran |
| Leslie    | Jennings  | Sales Rep            | San Fran |
| Leslie    | Thompson  | Sales Rep            | San Fran |
| Julie     | Firrelli  | Sales Rep            | Boston   |
| Steve     | Patterson | Sales Rep            | Boston   |
| Foon Yue  | Tseng     | Sales Rep            | NYC      |
| George    | Vanauf    | Sales Rep            | NYC      |
| Gerard    | Bondur    | Sale Manager (EMEA)  | Paris    |
| Loui      | Bondur    | Sales Rep            | Paris    |
| Gerard    | Hernandez | Sales Rep            | Paris    |
| Pamela    | Castillo  | Sales Rep            | Paris    |
| Martin    | Gerard    | Sales Rep            | Paris    |
| Mami      | Nishi     | Sales Rep            | Tokyo    |
| Yoshimi   | Kato      | Sales Rep            | Tokyo    |
| William   | Patterson | Sales Manager (APAC) | Sydney   |
| Andy      | Fixter    | Sales Rep            | Sydney   |
| Peter     | Marsh     | Sales Rep            | Sydney   |
| Tom       | King      | Sales Rep            | Sydney   |
| Larry     | Bott      | Sales Rep            | London   |
| Barry     | Jones     | Sales Rep            | London   |
+-----------+-----------+----------------------+----------+
23 rows in set (0.001 sec)
```

11. Count the total number of orders made by each customer.

```
mysql> SELECT c.customerName, COUNT(o.orderNumber) AS totalOrders
    -> FROM customers c
    -> LEFT JOIN orders o ON c.customerNumber = o.customerNumber
    -> GROUP BY c.customerName
    -> ORDER BY totalOrders DESC;
+---------------------------------+------------+
| customerName                    | totalOrders |
+---------------------------------+------------+
| Euro+ Shopping Channel          |         26 |
| Mini Gifts Distributors Ltd.    |         17 |
| Australian Collectors, Co.      |          5 |
| Danish Wholesale Imports        |          5 |
| Dragon Souveniers, Ltd.         |          5 |
| Down Under Souveniers, Inc      |          5 |
| Reims Collectables              |          5 |
| La Rochelle Gifts               |          4 |
| Baane Mini Imports              |          4 |
| Blauer See Auto, Co.            |          4 |
| Land of Toys Inc.               |          4 |
| Volvo Model Replicas, Co        |          4 |
| Muscle Machine Inc              |          4 |
| Diecast Classics Inc.           |          4 |
| Technics Stores Inc.            |          4 |
| Handji Gifts& Co                |          4 |
| Anna's Decorations, Ltd         |          4 |
| Souveniers And Things Co.       |          4 |
| Corporate Gift Ideas Co.        |          4 |
| Royale Belge                    |          4 |
| Salzburg Collectables           |          4 |
| Tokyo Collectables, Ltd         |          4 |
| The Sharp Gifts Warehouse       |          4 |
| Kelly's Gift Shop               |          4 |
| Atelier graphique               |          3 |
| Signal Gift Stores              |          3 |
| Mini Wheels Co.                 |          3 |
| Saveley & Henriot, Co.          |          3 |
| Herkku Gifts                    |          3 |
| La Corne D'abondance, Co.       |          3 |
| Gift Depot Inc.                 |          3 |
| Vitachrome Inc.                 |          3 |
| Toys of Finland, Co.            |          3 |
| AV Stores, Co.                  |          3 |
| Auto-Moto Classics Inc.         |          3 |
| UK Collectables, Ltd.           |          3 |
| Toys4GrownUps.com               |          3 |
| Mini Caravy                     |          3 |
| Enaco Distributors              |          3 |
| Québec Home Shopping Network    |          3 |
| Alpha Cognac                    |          3 |
| Lyon Souveniers                 |          3 |
| Rovelli Gifts                   |          3 |
| Oulu Toy Supplies, Inc.         |          3 |
| Petit Auto                      |          3 |
| Mini Creations Ltd.             |          3 |
| Stylish Desk Decors, Co.        |          3 |
| Tekni Collectables Inc.         |          3 |
| Australian Gift Network, Co     |          3 |
| Suominen Souveniers             |          3 |
| Marseille Mini Autos            |          3 |
| Motor Mint Distributors Inc.    |          3 |
| Daedalus Designs Imports        |          2 |
| Cambridge Collectables Co.      |          2 |
| Osaka Souveniers Co.            |          2 |
| Clover Collections, Co.         |          2 |
| Canadian Gift Exchange Network  |          2 |
| Online Mini Collectables        |          2 |
| King Kong Collectables, Co.     |          2 |
| Boards & Toys Co.               |          2 |
| Heintze Collectables            |          2 |
| Collectable Mini Designs Co.    |          2 |
| giftsbymail.co.uk               |          2 |
| Amica Models & Co.              |          2 |
| Auto Associés & Cie.            |          2 |
| Toms Spezialitäten, Ltd         |          2 |
| Royal Canadian Collectables, Ltd. |          2 |
| Marta's Replicas Co.            |          2 |
| Vida Sport, Ltd                 |          2 |
| Norway Gifts By Mail, Co.       |          2 |
| Mini Classics                   |          2 |
| Classic Gift Ideas, Inc         |          2 |
| CAF Imports                     |          2 |
| Men 'R' US Retailers, Ltd.      |          2 |
| Super Scale Inc.                |          2 |
| Microscale Inc.                 |          2 |
| Frau da Collezione              |          2 |
| West Coast Collectables Co.     |          2 |
| Iberia Gift Imports, Corp.      |          2 |
| Signal Collectibles Ltd.        |          2 |
| Double Decker Gift Stores, Ltd  |          2 |
| Diecast Collectables            |          2 |
| Bavarian Collectables Imports, Co. |          1 |
| Havel & Zbyszek Co              |          0 |
| American Souvenirs Inc          |          0 |
| Porto Imports Co.               |          0 |
| Asian Shopping Network, Co      |          0 |
| Natürlich Autos                 |          0 |
| ANG Resellers                   |          0 |
| Messner Shopping Network        |          0 |
| Franken Gifts, Co               |          0 |
| BG&E Collectables               |          0 |
| Schuyler Imports                |          0 |
| Der Hund Imports                |          0 |
| Cramer Spezialitäten, Ltd       |          0 |
| Asian Treasures, Inc.           |          0 |
| SAR Distributors, Co            |          0 |
| Kommission Auto                 |          0 |
| Lisboa Souveniers, Inc          |          0 |
| Precious Collectables           |          0 |
| Stuttgart Collectable Exchange  |          0 |
| Feuer Online Stores, Inc        |          0 |
| Warburg Exchange                |          0 |
| Anton Designs, Ltd.             |          0 |
| Mit Vergnügen & Co.             |          0 |
| Kremlin Collectables, Co.       |          0 |
| Raanan Stores, Inc              |          0 |
+---------------------------------+------------+
122 rows in set (0.002 sec)
```

12. Calculate the average payment amount per country.

```
mysql> SELECT c.country, AVG(p.amount) AS averagePayment
    -> FROM customers c
    -> JOIN payments p ON c.customerNumber = p.customerNumber
    -> GROUP BY c.country;
+-------------+----------------+
| country     | averagePayment |
+-------------+----------------+
| France      |   27592.873714 |
| USA         |   32688.489462 |
| Australia   |   31836.613750 |
| Norway      |   26056.197500 |
| Germany     |   28067.284286 |
| Spain       |   43236.457826 |
| Sweden      |   30114.272500 |
| Denmark     |   32892.716667 |
| Singapore   |   37381.657143 |
| Norway      |   41655.377500 |
| Japan       |   27984.991667 |
| Finland     |   32794.372222 |
| UK          |   32625.325000 |
| Ireland     |   24949.135000 |
| Canada      |   29415.980000 |
| Hong Kong   |   45480.790000 |
| Italy       |   36139.394444 |
| Switzerland |   54388.960000 |
| Belgium     |   15245.171667 |
| New Zealand |   35680.599091 |
| Austria     |   22686.665000 |
| Philippines |   29156.100000 |
+-------------+----------------+
22 rows in set (0.001 sec)
```

13. Find the maximum and minimum product prices in the catalog.

```
mysql> SELECT MAX(buyPrice) AS maxPrice, MIN(buyPrice) AS minPrice
    -> FROM products;
+----------+----------+
| maxPrice | minPrice |
+----------+----------+
|   103.42 |    15.91 |
+----------+----------+
1 row in set (0.001 sec)
```

14. Show the total sales amount per employee.

```
mysql> SELECT e.firstName, e.lastName,
    ->        SUM(od.quantityOrdered * od.priceEach * (1 - IFNULL(od.discountRate,0))) 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
    -> GROUP BY e.employeeNumber, e.firstName, e.lastName
    -> ORDER BY totalSales DESC;
+----------+----------+-------------+
| firstName | lastName | totalSales  |
+----------+----------+-------------+
| Gerard    | Hernandez | 1254283.5330 |
| Leslie    | Jennings  | 1079007.9595 |
| Pamela    | Castillo  |  865969.8770 |
| Larry     | Bott      |  731119.0330 |
| Barry     | Jones     |  704853.9100 |
| George    | Vanauf    |  667589.9590 |
| Peter     | Marsh     |  581621.4090 |
| Loui      | Bondur    |  569143.8225 |
| Andy      | Fixter    |  561071.4410 |
| Steve     | Patterson |  505004.9960 |
| Foon Yue  | Tseng     |  488212.6700 |
| Mami      | Nishi     |  456482.5750 |
| Martin    | Gerard    |  386817.1400 |
| Julie     | Firrelli  |  386663.2000 |
| Leslie    | Thompson  |  347533.0300 |
+----------+----------+-------------+
15 rows in set (0.009 sec)
```

15. Display the top 3 customers by total payment amount.

```
mysql> SELECT c.customerName, SUM(p.amount) AS totalPayments
    -> FROM customers c
    -> JOIN payments p ON c.customerNumber = p.customerNumber
    -> GROUP BY c.customerNumber, c.customerName
    -> ORDER BY totalPayments DESC
    -> LIMIT 3;
+-----------------------------+---------------+
| customerName                | totalPayments |
+-----------------------------+---------------+
| Euro+ Shopping Channel      |     715738.98 |
| Mini Gifts Distributors Ltd. |     584188.24 |
| Australian Collectors, Co.  |     180585.07 |
+-----------------------------+---------------+
3 rows in set (0.001 sec)
```

Practice 3: Stored Procedures

Create **five stored procedures** that automate useful database operations. You can
base them on the queries or updates from the previous tasks.

```
mysql> DROP PROCEDURE IF EXISTS ShowAllCustomers;
Query OK, 0 rows affected (0.003 sec)

mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE ShowAllCustomers()
    -> BEGIN
    ->     SELECT * FROM customers;
    -> END //
Query OK, 0 rows affected (0.001 sec)

mysql>
mysql> DELIMITER ;
mysql> CALL ShowAllCustomers();
+---------------+-----------------------------------+----------------+-----------------+-----------------+-----------------------------+----------------------+----------------+-----------
---+------------+-------------+----------------------+-------------+-------------+
| customerNumber | customerName                      | contactLastName | contactFirstName | phone           | addressLine1                | addressLine2         | city           | state     
  | postalCode | country     | salesRepEmployeeNumber | creditLimit | loyaltyLevel |
+---------------+-----------------------------------+----------------+-----------------+-----------------+-----------------------------+----------------------+----------------+-----------
---+------------+-------------+----------------------+-------------+-------------+
|           103 | Atelier graphique                 | Schmitt        | Carine          | 40.32.2555      | 54, rue Royale              | NULL                 | Nantes         | NULL      
  | 44000      | France      |                 1370 |    21000.00 | Gold        |
|           112 | Signal Gift Stores                | King           | Jean            | 7025551838      | 8489 Strong St.             | NULL                 | Las Vegas      | NV        
  | 83030      | USA         |                 1166 |    71800.00 | Gold        |
|           114 | Australian Collectors, Co.        | Ferguson       | Peter           | 03 9520 4555    | 636 St Kilda Road           | Level 3              | Melbourne      | Victoria  
  | 3004       | Australia   |                 1611 |   117300.00 | NULL        |
|           119 | La Rochelle Gifts                 | Labrune        | Janine          | 40.67.8555      | 67, rue des Cinquante Otages | NULL                 | Nantes         | NULL      
  | 44000      | France      |                 1370 |   118200.00 | Gold        |
|           121 | Baane Mini Imports                | Bergulfsen     | Jonas           | 07-98 9555      | Erling Skakkes gate 78      | NULL                 | Stavern        | NULL      
  | 4110       | Norway      |                 1504 |    81700.00 | NULL        |
|           124 | Mini Gifts Distributors Ltd.      | Nelson         | Susan           | 4155551450      | 5677 Strong St.             | NULL                 | San Rafael     | CA        
  | 97562      | USA         |                 1165 |   210500.00 | NULL        |
|           125 | Havel & Zbyszek Co                | Piestrzeniewicz | Zbyszek         | (26) 642-7555   | ul. Filtrowa 68             | NULL                 | Warszawa       | NULL      
  | 01-012     | Poland      |                 NULL |        0.00 | NULL        |
|           128 | Blauer See Auto, Co.              | Keitel         | Roland          | +49 69 66 90 2555 | Lyonerstr. 34               | NULL                 | Frankfurt      | NULL      
  | 60528      | Germany     |                 1504 |    59700.00 | NULL        |
|           129 | Mini Wheels Co.                   | Murphy         | Julie           | 6505555787      | 5557 North Pendale Street   | NULL                 | San Francisco  | CA        
  | 94217      | USA         |                 1165 |    64600.00 | NULL        |
|           131 | Land of Toys Inc.                 | Lee            | Kwai            | 2125557818      | 897 Long Airport Avenue     | NULL                 | NYC            | NY        
  | 10022      | USA         |                 1323 |   114900.00 | NULL        |
|           141 | Euro+ Shopping Channel            | Freyre         | Diego           | (91) 555 94 44  | C/ Moralzarzal, 86          | NULL                 | Madrid         | NULL      
  | 28034      | Spain       |                 1370 |   227600.00 | NULL        |
|           144 | Volvo Model Replicas, Co          | Berglund       | Christina       | 0921-12 3555    | Berguvsvägen  8             | NULL                 | Luleå          | NULL      
  | S-958 22   | Sweden      |                 1504 |    53100.00 | NULL        |
|           145 | Danish Wholesale Imports          | Petersen       | Jytte           | 31 12 3555      | Vinbæltet 34                | NULL                 | Kobenhavn      | NULL      
  | 1734       | Denmark     |                 1401 |    83400.00 | NULL        |
|           146 | Saveley & Henriot, Co.            | Saveley        | Mary            | 78.32.5555      | 2, rue du Commerce          | NULL                 | Lyon           | NULL      
  | 69004      | France      |                 1337 |   123900.00 | NULL        |
|           148 | Dragon Souveniers, Ltd.           | Natividad      | Eric            | +65 221 7555    | Bronz Sok.                  | Bronz Apt. 3/6 Tesvikiye | Singapore      | NULL      
  | 079903     | Singapore   |                 1621 |   103800.00 | NULL        |
|           151 | Muscle Machine Inc                | Young          | Jeff            | 2125557413      | 4092 Furth Circle           | Suite 400            | NYC            | NY        
  | 10022      | USA         |                 1286 |   138500.00 | NULL        |
|           157 | Diecast Classics Inc.             | Leong          | Kelvin          | 2155551555      | 7586 Pompton St.            | NULL                 | Allentown      | PA        
  | 70267      | USA         |                 1216 |   100600.00 | NULL        |
|           161 | Technics Stores Inc.              | Hashimoto      | Juri            | 6505556809      | 9408 Furth Circle           | NULL                 | Burlingame     | CA        
  | 94217      | USA         |                 1165 |    84600.00 | NULL        |
|           166 | Handji Gifts& Co                  | Victorino      | Wendy           | +65 224 1555    | 106 Linden Road Sandown     | 2nd Floor            | Singapore      | NULL      
  | 069045     | Singapore   |                 1612 |    97900.00 | NULL        |
```

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE ShowProductsPrices()
    -> BEGIN
    ->     SELECT productName, buyPrice FROM products;
    -> END //
Query OK, 0 rows affected (0.001 sec)

mysql>
mysql> DELIMITER ;
mysql> CALL ShowProductsPrices();
+---------------------------------------------+----------+
| productName                                 | buyPrice |
+---------------------------------------------+----------+
| 1969 Harley Davidson Ultimate Chopper       |    48.81 |
| 1952 Alpine Renault 1300                    |    98.58 |
| 1996 Moto Guzzi 1100i                       |    68.99 |
| 2003 Harley-Davidson Eagle Drag Bike        |    91.02 |
| 1972 Alfa Romeo GTA                         |    85.68 |
| 1962 LanciaA Delta 16V                      |   103.42 |
| 1968 Ford Mustang                           |    95.34 |
| 2001 Ferrari Enzo                           |    95.59 |
| 1958 Setra Bus                              |    77.90 |
| 2002 Suzuki XREO                            |    66.27 |
| 1969 Corvair Monza                          |    89.14 |
| 1968 Dodge Charger                          |    75.16 |
| 1969 Ford Falcon                            |    83.05 |
| 1970 Plymouth Hemi Cuda                     |    31.92 |
| 1957 Chevy Pickup                           |    55.70 |
| 1969 Dodge Charger                          |    58.73 |
| 1940 Ford Pickup Truck                      |    58.33 |
| 1993 Mazda RX-7                             |    83.51 |
| 1937 Lincoln Berline                        |    60.62 |
| 1936 Mercedes-Benz 500K Special Roadster    |    24.26 |
| 1965 Aston Martin DB5                       |    65.96 |
| 1980s Black Hawk Helicopter                 |    77.27 |
| 1917 Grand Touring Sedan                    |    86.70 |
| 1948 Porsche 356-A Roadster                 |    53.90 |
| 1995 Honda Civic                            |    93.89 |
| 1998 Chrysler Plymouth Prowler              |   101.51 |
| 1911 Ford Town Car                          |    33.30 |
| 1964 Mercedes Tour Bus                      |    74.86 |
| 1932 Model A Ford J-Coupe                   |    58.48 |
| 1926 Ford Fire Engine                       |    24.92 |
| P-51-D Mustang                              |    49.00 |
| 1936 Harley Davidson El Knucklehead         |    24.23 |
| 1928 Mercedes-Benz SSK                      |    72.56 |
| 1999 Indy 500 Monte Carlo SS                |    56.76 |
| 1913 Ford Model T Speedster                 |    60.78 |
| 1934 Ford V8 Coupe                          |    34.35 |
| 1999 Yamaha Speed Boat                      |    51.61 |
| 18th Century Vintage Horse Carriage         |    60.74 |
| 1903 Ford Model A                           |    68.30 |
| 1992 Ferrari 360 Spider red                 |    77.90 |
| 1985 Toyota Supra                           |    57.01 |
| Collectable Wooden Train                    |    67.56 |
| 1969 Dodge Super Bee                        |    49.05 |
| 1917 Maxwell Touring Car                    |    57.54 |
| 1976 Ford Gran Torino                       |    73.49 |
```

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE UpdateDiscount(IN minQuantity INT, IN newDiscount DECIMAL(5,2))
    -> BEGIN
    ->     UPDATE orderdetails
    ->     SET discountRate = newDiscount
    ->     WHERE quantityOrdered > minQuantity;
    -> END //
Query OK, 0 rows affected (0.002 sec)

mysql>
mysql> DELIMITER ;
mysql> CALL UpdateDiscount(50, 0.05);
Query OK, 0 rows affected (0.003 sec)

mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE ShowEmployeeSales()
    -> BEGIN
    ->     SELECT e.firstName, e.lastName,
    ->            SUM(od.quantityOrdered * od.priceEach * (1 - IFNULL(od.discountRate,0))) 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
    ->     GROUP BY e.employeeNumber, e.firstName, e.lastName
    ->     ORDER BY totalSales DESC;
    -> END //
Query OK, 0 rows affected (0.002 sec)

mysql>
mysql> DELIMITER ;
mysql> CALL ShowEmployeeSales();
+-----------+-----------+--------------+
| firstName | lastName  | totalSales   |
+-----------+-----------+--------------+
| Gerard    | Hernandez | 1254283.5330 |
| Leslie    | Jennings  | 1079007.9595 |
| Pamela    | Castillo  |  865969.8770 |
| Larry     | Bott      |  731119.0330 |
| Barry     | Jones     |  704853.9100 |
| George    | Vanauf    |  667589.9590 |
| Peter     | Marsh     |  581621.4090 |
| Loui      | Bondur    |  569143.8225 |
| Andy      | Fixter    |  561071.4410 |
| Steve     | Patterson |  505004.9960 |
| Foon Yue  | Tseng     |  488212.6700 |
| Mami      | Nishi     |  456482.5750 |
| Martin    | Gerard    |  386817.1400 |
| Julie     | Firrelli  |  386663.2000 |
| Leslie    | Thompson  |  347533.0300 |
+-----------+-----------+--------------+
15 rows in set (0.009 sec)

Query OK, 0 rows affected (0.009 sec)
```

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE TopCustomers(IN topN INT)
    -> BEGIN
    ->     SELECT c.customerName, SUM(p.amount) AS totalPayments
    ->     FROM customers c
    ->     JOIN payments p ON c.customerNumber = p.customerNumber
    ->     GROUP BY c.customerNumber, c.customerName
    ->     ORDER BY totalPayments DESC
    ->     LIMIT topN;
    -> END //
Query OK, 0 rows affected (0.002 sec)

mysql>
mysql> DELIMITER ;
mysql> CALL TopCustomers(3);
+-----------------------------+---------------+
| customerName                | totalPayments |
+-----------------------------+---------------+
| Euro+ Shopping Channel      |     715738.98 |
| Mini Gifts Distributors Ltd. |     584188.24 |
| Australian Collectors, Co.  |     180585.07 |
+-----------------------------+---------------+
3 rows in set (0.001 sec)
```