

- 1) Here we are Fetching the employee number, first name and last name of those employees who are working as Sales Rep reporting to employee with employee number 1102

```
mysql> select employeeNumber, firstName, lastName from employees where jobTitle = 'Sales Rep' AND reportsTo = '1102';
+-----+-----+-----+
| employeeNumber | firstName | lastName |
+-----+-----+-----+
|          1337 | Loui     | Bondur   |
|          1370 | Gerard   | Hernandez|
|          1401 | Pamela   | Castillo |
|          1501 | Larry    | Bott     |
|          1504 | Barry    | Jones    |
|          1702 | Martin   | Gerard   |
+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>
```

- 2) Here we extract the unique product line values containing the word cars at the end from the selected database.

```
mysql> select distinct productLine from products where productLine like '%cars';
+-----+
| productLine |
+-----+
| Classic Cars |
| Vintage Cars |
+-----+
2 rows in set (0.01 sec)
```

- 3) Using CASE statement, to segment customers into three categories based on their country

```
mysql> select customerNumber, customerName, case when country in ('USA','Canada') then 'North America' when country in ('UK','France','germany')then 'Europe'
-> else 'other'
-> end as CustomerSegment from customers;
ERROR 1054 (42S22): Unknown column 'customerName' in 'field list'
mysql> select customerNumber, customerName, case when country in ('USA','Canada') then 'North America' when country in ('UK','France','germany')then 'Europe'
-> else 'other'
-> end as CustomerSegment from customers;
+-----+-----+-----+
| customerNumber | customerName | CustomerSegment |
+-----+-----+-----+
|          103 | Atelier graphique | Europe |
|          112 | Signal Gift Stores | North America |
|          114 | Australian Collectors, Co. | other |
|          119 | La Rochelle Gifts | Europe |
|          121 | Baane Mini Imports | other |
|          124 | Mini Gifts Distributors Ltd. | North America |
|          125 | Havel & Zbyszek Co | other |
|          128 | Blauer See Auto, Co. | Europe |
|          129 | Mini Wheels Co. | North America |
|          131 | Land of Toys Inc. | North America |
|          141 | Euro+ Shopping Channel | other |
|          144 | Volvo Model Replicas, Co | other |
|          145 | Danish Wholesale Imports | other |
|          146 | Savelev & Henriot, Co. | Europe |
+-----+-----+-----+
```

4) using Aggregation functions and Having clause, Date and Time functions

```
mysql> SELECT productCode, SUM(quantityOrdered) AS total_quantity
-> FROM OrderDetails
-> GROUP BY productCode
-> ORDER BY total_quantity DESC
-> LIMIT 10;
```

| productCode | total_quantity |
|-------------|----------------|
| S18_3232 | 1808 |
| S18_1342 | 1111 |
| S700_4002 | 1085 |
| S18_3856 | 1076 |
| S50_1341 | 1074 |
| S18_4600 | 1061 |
| S10_1678 | 1057 |
| S12_4473 | 1056 |
| S18_2319 | 1053 |
| S24_3856 | 1052 |

10 rows in set (0.01 sec)

```
mysql> SELECT
->
->     MONTHNAME(paymentDate) AS month_name,
->     COUNT(*) AS total_payments
-> FROM Payments
-> GROUP BY month_name
-> HAVING total_payments > 20
-> ORDER BY total_payments DESC;
```

| month_name | total_payments |
|------------|----------------|
| December | 43 |
| November | 42 |
| March | 24 |
| May | 23 |
| April | 22 |

5 rows in set (0.01 sec)