mysql> create database PhoneCharges;

Query OK, 1 row affected (0.00 sec)

mysql> use Phonecharges;

Database changed

mysql> Create Table Department(DeptCode char(3), DeptName char(40));

Query OK, 0 rows affected (0.09 sec)

mysql> Insert into Department values("ITD", "Information Technology");

Query OK, 1 row affected (0.02 sec)

mysql> Insert into Department values("HRS", "Human Resources");

Query OK, 1 row affected (0.02 sec)

mysql> Insert into Department values("APV", "Advanced Planning");

Query OK, 1 row affected (0.03 sec)

mysql> Drop table Department;

Query OK, 0 rows affected (0.05 sec)

mysql> Create Table Department(DeptCode char(3) Primary Key, DeptName char(40));

Query OK, 0 rows affected (0.05 sec)

mysql> Insert into Department values("ITD", "Information Technology");

Query OK, 1 row affected (0.03 sec)

mysql> Insert into Department values("HRS", "Human Resources");

Query OK, 1 row affected (0.05 sec)

mysql> Insert into Department values("APV", "Advanced Planning");

Query OK, 1 row affected (0.03 sec)

mysql> Describe Department;

+----------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+-------+

| DeptCode | char(3) | NO | PRI | NULL | |

| DeptName | char(40) | YES | | NULL | |

+----------+----------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> Create Table Customer(UserID char(4) primary key, LastName char(20), FirstName char(20), PhoneExt char(4), BasicCharges decimal(10,2), ExtraCharges decimal(10,2), DeptCode char(3));

Query OK, 0 rows affected (0.06 sec)

mysql> Insert into Customer values("T129", "Bishop", "Fred", "3383", 10.00, 22.00, "ITD");

Query OK, 1 row affected (0.03 sec)

mysql> Insert into Customer values("T238", "Chan", "Rose", "3495", 10.00, 29.95, "ITD");

Query OK, 1 row affected (0.03 sec)

mysql> Insert into Customer values("T347", "Febo", "Javier", "4267", 10.00, 7.75, "HRS");

Query OK, 1 row affected (0.03 sec)

mysql> Insert into Customer values("T451", "Ginras", "Mary", "3156", 10.00, 52.85, "APV");

Query OK, 1 row affected (0.03 sec)

mysql> Insert into Customer values("T645", "Johnsen", "Paul", "4445", 20.00, 7.75, "ITD");

Query OK, 1 row affected (0.05 sec)

mysql> Insert into Customer values("T789", "Liddell", "Bugard", "7890", 20.00, 15.67, "APV");

Query OK, 1 row affected (0.03 sec)

mysql> select \* from customer;

+--------+----------+-----------+----------+--------------+--------------+----------+

| UserID | LastName | FirstName | PhoneExt | BasicCharges | ExtraCharges | DeptCode |

+--------+----------+-----------+----------+--------------+--------------+----------+

| T129 | Bishop | Fred | 3383 | 10.00 | 22.00 | ITD |

| T238 | Chan | Rose | 3495 | 10.00 | 29.95 | ITD |

| T347 | Febo | Javier | 4267 | 10.00 | 7.75 | HRS |

| T451 | Ginras | Mary | 3156 | 10.00 | 52.85 | APV |

| T645 | Johnsen | Paul | 4445 | 20.00 | 7.75 | ITD |

| T789 | Liddell | Bugard | 7890 | 20.00 | 15.67 | APV |

+--------+----------+-----------+----------+--------------+--------------+----------+

6 rows in set (0.00 sec)

mysql> select \* from department;

+----------+------------------------+

| DeptCode | DeptName |

+----------+------------------------+

| APV | Advanced Planning |

| HRS | Human Resources |

| ITD | Information Technology |

+----------+------------------------+

3 rows in set (0.00 sec)

mysql> describe customer;

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| UserID | char(4) | NO | PRI | NULL | |

| LastName | char(20) | YES | | NULL | |

| FirstName | char(20) | YES | | NULL | |

| PhoneExt | char(4) | YES | | NULL | |

| BasicCharges | decimal(10,2) | YES | | NULL | |

| ExtraCharges | decimal(10,2) | YES | | NULL | |

| DeptCode | char(3) | YES | | NULL | |

+--------------+---------------+------+-----+---------+-------+

7 rows in set (0.00 sec)

mysql> describe department;

+----------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+-------+

| DeptCode | char(3) | NO | PRI | NULL | |

| DeptName | char(40) | YES | | NULL | |

+----------+----------+------+-----+---------+-------+

2 rows in set (0.02 sec)

mysql> update customer set ExtraCharges = 56.00 where UserID = "T451";

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from customer;

+--------+----------+-----------+----------+--------------+--------------+----------+

| UserID | LastName | FirstName | PhoneExt | BasicCharges | ExtraCharges | DeptCode |

+--------+----------+-----------+----------+--------------+--------------+----------+

| T129 | Bishop | Fred | 3383 | 10.00 | 22.00 | ITD |

| T238 | Chan | Rose | 3495 | 10.00 | 29.95 | ITD |

| T347 | Febo | Javier | 4267 | 10.00 | 7.75 | HRS |

| T451 | Ginras | Mary | 3156 | 10.00 | 56.00 | APV |

| T645 | Johnsen | Paul | 4445 | 20.00 | 7.75 | ITD |

| T789 | Liddell | Bugard | 7890 | 20.00 | 15.67 | APV |

+--------+----------+-----------+----------+--------------+--------------+----------+

6 rows in set (0.00 sec)

mysql> use PhoneCharges;

Database changed

mysql> select LastName, FirstName, DeptCode from Customer where DeptCode = "ITD";

+----------+-----------+----------+

| LastName | FirstName | DeptCode |

+----------+-----------+----------+

| Bishop | Fred | ITD |

| Chan | Rose | ITD |

| Johnsen | Paul | ITD |

+----------+-----------+----------+

3 rows in set (0.02 sec)

mysql> select LastName, FirstName, Basiccharges, Extracharges from Customer where BasicCharges >= 10 AND ExtraCharges >=12;

+----------+-----------+--------------+--------------+

| LastName | FirstName | Basiccharges | Extracharges |

+----------+-----------+--------------+--------------+

| Bishop | Fred | 10.00 | 22.00 |

| Chan | Rose | 10.00 | 29.95 |

| Ginras | Mary | 10.00 | 56.00 |

| Liddell | Bugard | 20.00 | 15.67 |

+----------+-----------+--------------+--------------+

4 rows in set (0.02 sec)

mysql> select Average(ExtraCharges) As AvgExtCharges from Customer;

ERROR 1305 (42000): FUNCTION phonecharges.Average does not exist

mysql> select Sum(ExtraCharges) As Total from Customer;

+--------+

| Total |

+--------+

| 139.12 |

+--------+

1 row in set (0.00 sec)

mysql> select Avg(ExtraCharges) As AvgExtCharges from Customer;

+---------------+

| AvgExtCharges |

+---------------+

| 23.186667 |

+---------------+

1 row in set (0.00 sec)

mysql> select userid, phoneext, (basiccharges + extracharges) as totalCharges from customer

-> ;

+--------+----------+--------------+

| userid | phoneext | totalCharges |

+--------+----------+--------------+

| T129 | 3383 | 32.00 |

| T238 | 3495 | 39.95 |

| T347 | 4267 | 17.75 |

| T451 | 3156 | 66.00 |

| T645 | 4445 | 27.75 |

| T789 | 7890 | 35.67 |

+--------+----------+--------------+

6 rows in set (0.00 sec)

mysql> select LastName, FirstName, Basiccharges, Extracharges from customer where extracharges between 10.00 and 50.00;;

+----------+-----------+--------------+--------------+

| LastName | FirstName | Basiccharges | Extracharges |

+----------+-----------+--------------+--------------+

| Bishop | Fred | 10.00 | 22.00 |

| Chan | Rose | 10.00 | 29.95 |

| Liddell | Bugard | 20.00 | 15.67 |

+----------+-----------+--------------+--------------+

3 rows in set (0.00 sec)

ERROR:

No query specified

mysql> select userid, lastname, phoneext, deptcode from customer ORDER BY deptcode;

+--------+----------+----------+----------+

| userid | lastname | phoneext | deptcode |

+--------+----------+----------+----------+

| T451 | Ginras | 3156 | APV |

| T789 | Liddell | 7890 | APV |

| T347 | Febo | 4267 | HRS |

| T129 | Bishop | 3383 | ITD |

| T238 | Chan | 3495 | ITD |

| T645 | Johnsen | 4445 | ITD |

+--------+----------+----------+----------+

6 rows in set (0.00 sec)

mysql> select max(extracharges) as MaxExtCharges from customer;

+---------------+

| MaxExtCharges |

+---------------+

| 56.00 |

+---------------+

1 row in set (0.00 sec)

mysql> select deptcode, count(lastname) as NumberOfUsers from customer GROUP BY Department;

ERROR 1054 (42S22): Unknown column 'Department' in 'group statement'

mysql> select deptcode, count(lastname) as NumberOfUsers from customer GROUP BY Dept;

ERROR 1054 (42S22): Unknown column 'Dept' in 'group statement'

mysql> describe customer;

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| UserID | char(4) | NO | PRI | NULL | |

| LastName | char(20) | YES | | NULL | |

| FirstName | char(20) | YES | | NULL | |

| PhoneExt | char(4) | YES | | NULL | |

| BasicCharges | decimal(10,2) | YES | | NULL | |

| ExtraCharges | decimal(10,2) | YES | | NULL | |

| DeptCode | char(3) | YES | | NULL | |

+--------------+---------------+------+-----+---------+-------+

7 rows in set (0.00 sec)

mysql> select deptcode, count(lastname) as NumberOfUsers from customer GROUP BY DeptCode;

+----------+---------------+

| deptcode | NumberOfUsers |

+----------+---------------+

| APV | 2 |

| HRS | 1 |

| ITD | 3 |

+----------+---------------+

3 rows in set (0.00 sec)

mysql> select deptcode, sum(basicCharges) as TotalBasic from customer GROUP BY DeptCode;

+----------+------------+

| deptcode | TotalBasic |

+----------+------------+

| APV | 30.00 |

| HRS | 10.00 |

| ITD | 40.00 |

+----------+------------+

3 rows in set (0.00 sec)

mysql> describe customer;

+--------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------------+------+-----+---------+-------+

| UserID | char(4) | NO | PRI | NULL | |

| LastName | char(20) | YES | | NULL | |

| FirstName | char(20) | YES | | NULL | |

| PhoneExt | char(4) | YES | | NULL | |

| BasicCharges | decimal(10,2) | YES | | NULL | |

| ExtraCharges | decimal(10,2) | YES | | NULL | |

| DeptCode | char(3) | YES | | NULL | |

+--------------+---------------+------+-----+---------+-------+

7 rows in set (0.02 sec)

mysql> describe department;

+----------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+-------+

| DeptCode | char(3) | NO | PRI | NULL | |

| DeptName | char(40) | YES | | NULL | |

+----------+----------+------+-----+---------+-------+

2 rows in set (0.03 sec)

mysql> select lastname, firstname, deptname from customer, department where department.deptcode = customer.deptcode;

+----------+-----------+------------------------+

| lastname | firstname | deptname |

+----------+-----------+------------------------+

| Bishop | Fred | Information Technology |

| Chan | Rose | Information Technology |

| Febo | Javier | Human Resources |

| Ginras | Mary | Advanced Planning |

| Johnsen | Paul | Information Technology |

| Liddell | Bugard | Advanced Planning |

+----------+-----------+------------------------+

6 rows in set (0.00 sec)

mysql> select deptname, sum(basiccharges) as totalBasic from customer, department where department.deptcode = customer.deptcode GROUP BY deptname;

+------------------------+------------+

| deptname | totalBasic |

+------------------------+------------+

| Advanced Planning | 30.00 |

| Human Resources | 10.00 |

| Information Technology | 40.00 |

+------------------------+------------+

3 rows in set (0.00 sec)