

# MYSQL UNION KEYWORD

<http://www.tutorialspoint.com/mysql/mysql-union-keyword.htm>

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You can use **UNION** if you want to select rows one after the other from several tables or several sets of rows from a single table all as a single result set.

UNION is available as of MySQL 4.0. This section illustrates how to use it.

Suppose you have two tables that list prospective and actual customers, a third that lists vendors from whom you purchase supplies, and you want to create a single mailing list by merging names and addresses from all three tables. UNION provides a way to do this. Assume the three tables have the following contents:

```
mysql> SELECT * FROM prospect;
+-----+-----+-----+
| fname | lname | addr                |
+-----+-----+-----+
| Peter  | Jones | 482 Rush St., Apt. 402 |
| Bernice | Smith | 916 Maple Dr.         |
+-----+-----+-----+
mysql> SELECT * FROM customer;
+-----+-----+-----+
| last_name | first_name | address                |
+-----+-----+-----+
| Peterson  | Grace      | 16055 Seminole Ave.    |
| Smith     | Bernice    | 916 Maple Dr.         |
| Brown     | Walter     | 8602 1st St.          |
+-----+-----+-----+
mysql> SELECT * FROM vendor;
+-----+-----+
| company      | street                |
+-----+-----+
| ReddyParts, Inc. | 38 Industrial Blvd.  |
| Parts-to-go, Ltd. | 213B Commerce Park. |
+-----+-----+
```

It does not matter if all the three tables have different column names. The following query illustrates how to select names and addresses from the three tables all at once:

```
mysql> SELECT fname, lname, addr FROM prospect
-> UNION
-> SELECT first_name, last_name, address FROM customer
-> UNION
-> SELECT company, '', street FROM vendor;
+-----+-----+-----+
| fname | lname | addr                |
+-----+-----+-----+
| Peter  | Jones | 482 Rush St., Apt. 402 |
| Bernice | Smith | 916 Maple Dr.         |
| Grace  | Peterson | 16055 Seminole Ave.    |
| Walter | Brown  | 8602 1st St.          |
| ReddyParts, Inc. |      | 38 Industrial Blvd.    |
| Parts-to-go, Ltd. |      | 213B Commerce Park.    |
+-----+-----+-----+
```

If you want to select all records, including duplicates, follow the first UNION keyword with ALL:

```
mysql> SELECT fname, lname, addr FROM prospect
-> UNION ALL
-> SELECT first_name, last_name, address FROM customer
-> UNION
-> SELECT company, '', street FROM vendor;
+-----+-----+-----+
| fname | lname | addr                |
+-----+-----+-----+
| Peter  | Jones | 482 Rush St., Apt. 402 |
| Bernice | Smith | 916 Maple Dr.         |
+-----+-----+-----+
```

Grace	Peterson	16055 Seminole Ave.	
Bernice	Smith	916 Maple Dr.	
Walter	Brown	8602 1st St.	
ReddyParts, Inc.		38 Industrial Blvd.	
Parts-to-go, Ltd.		213B Commerce Park.	
+-----+	+-----+	+-----+	+