
ALTERING TABLES: UPDATE & DELETE

METIS

Updating a Table



Inventory Table

id	name	quantity	vendor_unit_price	last_shipment	reorder
1	tiger t-shirt	10	4.2500	2018-01-22	1
2	giraffe-print bag	18	24.9900	2018-02-26	0
3	elephant tie	15	13.1900	2018-02-26	0
4	zebra-striped pants	7	16.8800	2018-01-08	1
5	peacock feather hat	2	NULL	NULL	0
6	leopard-print scarf	NULL	8.5500	NULL	NULL
7	walrus-shaped pillow	5	12.2500	2018-03-12	0
8	gazelle lamp	3	38.8500	2018-03-12	0
9	bedding set, tiger icons	5	31.9900	2018-03-12	0
10	wooly mammoth curta...	4	29.9900	2018-03-12	0
12	manatee tank top	12	3.5000	2018-03-19	0
15	bow tie, ants marching	5	12.2900	2018-03-19	0

Updating a Table



Company has 11 leopard-print scarves in stock. Update inventory table.

```
UPDATE inventory SET quantity=11 WHERE id=6;
```

Name of table to be updated

**Column to change
and value to insert**

Specify row to change!

id	name	quantity	vendor_unit_price	last_shipment	reorder
4	zebra-striped pants	7	16.8800	2018-01-08	1
5	peacock feather hat	2	NULL	NULL	0
6	leopard-print scarf	11	8.5500	NULL	NULL
7	walrus-shaped pillow	5	12.2500	2018-03-12	0

Deleting Rows



Inventory Table

id	name	quantity	vendor_unit_price	last_shipment	reorder
1	tiger t-shirt	10	4.2500	2018-01-22	1
2	giraffe-print bag	18	24.9900	2018-02-26	0
3	elephant tie	15	13.1900	2018-02-26	0
4	zebra-striped pants	7	16.8800	2018-01-08	1
5	peacock feather hat	2	NULL	NULL	0
6	leopard-print scarf	11	8.5500	NULL	NULL
7	walrus-shaped pillow	5	12.2500	2018-03-12	0
8	gazelle lamp	3	38.8500	2018-03-12	0
9	bedding set, tiger icons	5	31.9900	2018-03-12	0
10	wooly mammoth curtains	4	29.9900	2018-03-12	0
12	manatee tank top	12	3.5000	2018-03-19	0
15	bow tie, ants marching	5	12.2900	2018-03-19	0



Deleting Rows



Company no longer offers peacock hat. Delete row from inventory table.

```
DELETE FROM inventory WHERE id=5;
```

Name of table that contains row **Specify row to change!**

id	name	quantity	vendor_unit_price	last_shipment	reorder
3	elephant tie	15	13.1900	2018-02-26	0
4	zebra-striped pants	7	16.8800	2018-01-08	1
6	leopard-print scarf	11	8.5500	NULL	NULL
7	walrus-shaped pillow	5	12.2500	2018-03-12	0
8	gazelle lamp	3	38.8500	2018-03-12	0

**Item #5 no
longer in
table**



Deleting Tables and Columns



To complete erase the inventory table:

```
DROP TABLE inventory;
```

To drop (or add) a column, use ALTER TABLE command:

```
ALTER TABLE inventory DROP COLUMN reorder;
```

Note: Dropping a column changes the table's schema.

Adding a New Column



Add the name of my current vendor for each item in inventory table.

```
ALTER TABLE inventory ADD vendor_name VARCHAR(100);
```

Now can add vendor's name when logging new items into inventory table:

```
INSERT INTO inventory VALUES (  
    16, 'blazer, unicorn decal', 3, 28.89,  
    '2018-03-22', 0, 'Fashion Friends'  
);
```

Include
vendor's name

Adding a New Column



Inventory Table

id	name	quantity	vendor_unit_price	last_shipment	reorder	vendor_name
1	tiger t-shirt	10	4.2500	2018-01-22	1	NULL
2	giraffe-print bag	18	24.9900	2018-02-26	0	NULL
3	elephant tie	15	13.1900	2018-02-26	0	NULL
4	zebra-striped pants	7	16.8800	2018-01-08	1	NULL
6	leopard-print scarf	11	8.5500	NULL	NULL	NULL
7	walrus-shaped pillow	5	12.2500	2018-03-12	0	NULL
8	gazelle lamp	3	38.8500	2018-03-12	0	NULL
9	bedding set, tiger icons	5	31.9900	2018-03-12	0	NULL
10	wooly mammoth curtains	4	29.9900	2018-03-12	0	NULL
12	manatee tank top	12	3.5000	2018-03-19	0	NULL
15	bow tie, ants marching	5	12.2900	2018-03-19	0	NULL
16	blazer, unicorn decal	3	28.8900	2018-03-22	0	Fashion Friends

New column
added

NULL values
for previous
items

Can set default when creating column to avoid NULLs

```
ALTER TABLE inventory ADD vendor_name VARCHAR(100)
NOT NULL DEFAULT('Trend Zoo, Inc.');
```