```
create table shopping(
order_id int primary key,
customer name varchar(50),
product_name varchar(50),
quantity int check(quantity>0),
price decimal(10,2),
order_date date
--insert values
insert into shopping values
(1, 'aravid', 'bluetooth speaker',2,750.00,'2025-08-15'),
(2, 'diya', 'smart watch',2,2000.00,'2025-08-30'),
(3, 'rahul', 'shoe', 3, 150.00, '2025-08-12'),
(4, 'meera', 'lamp', 4,370.00, '2025-07-28'),
(5, 'kavya', 'table fan', 1, 2999.00, '2025-08-09'),
(6, 'ravi', 'suit case', 2, 1499.00, '2025-01-08');
order_id | customer_name | product_name | quantity | price | order_date
       1 | aravid | bluetooth speaker | 2 | 750.00 | 2025-08-15
                       | smart watch
| shoe
       2 | diya
                                                   2 | 2000.00 | 2025-08-30
                                                   3 | 150.00 | 2025-08-12
       3 | rahul
                                                   4 | 370.00 | 2025-07-28
       4 | meera
                        lamp
                                                   1 | 2999.00 | 2025-08-09
       5 kavya
                        table fan
                                                   2 | 1499.00 | 2025-01-08
       6 | ravi
                        suit case
--alter table
alter table shopping
add status varchar(20) default 'pending';
order_id | customer_name | product_name
                                           | quantity | price | order_date | status
    | bluetooth speaker | 2 | 750.00 | 2025-08-15 | pending
       1 | aravid
                       | smart watch
| shoe
                                                   2 | 2000.00 | 2025-08-30 | pending
       2 | diya
                                                   3 | 150.00 | 2025-08-12 | pending
4 | 370.00 | 2025-07-28 | pending
       3 | rahul
       4 | meera
                        lamp
                                                   1 | 2999.00 | 2025-08-09 | pending
       5 kavya
                        table fan
                                                   2 | 1499.00 | 2025-01-08 | pending
       6 ravi
                        suit case
alter table shopping
drop column status;
order_id | customer_name | product_name
                                            | quantity | price | order_date
       1 | aravid
                        | bluetooth speaker |
                                                    2 |
                                                        750.00
                                                                 2025-08-15
       2 diya
                                                    2 | 2000.00 |
                         smart watch
                                                                 2025-08-30
       3 | rahul
                                                    3 I
                                                        150.00
                                                                 2025-08-12
                         shoe
       4 | meera
                                                        370.00
                                                    4
                                                                 2025-07-28
                         lamp
                                                        2999.00
         kavya
                          table fan
                                                                 2025-08-09
```

--DDL

```
alter table orders
rename column product_name to items_name;
                                              | quantity | price | order_date | status
order_id | customer_name |
                               items_name
                          | bluetooth speaker
       1 | aravid
                                                       2 |
                                                           750.00
                                                                    2025-08-15 | pending
                          smart watch
                                                          2000.00
                                                                     2025-08-30
           diya
                                                       2 |
                                                                                 pending
           rahul
                            shoe
                                                           150.00 |
                                                                     2025-08-12
                                                                                 pending
                                                                     2025-07-28
        4
           meera
                            lamp
                                                      4
                                                           370.00
                                                                                 pending
                                                           2999.00
            kavya
                            table fan
                                                                     2025-08-09
                                                                                 pending
           ravi
                           suit case
                                                       2 | 1499.00 |
                                                                    2025-01-08
                                                                                 pending
--truncate table
truncate table orders;
--drop table
drop table orders;
--add constraint
alter table orders
add constraint chk_qty check(quantity>0);
--DML
--deletion of all rows
delete from orders;
--deletion of specific rows
delete from orders
where customer_name='kavya';
order_id | customer_name |
                                              | quantity | price | order_date | status
                               items_name
                                                                     2025-08-15
       1 |
                            bluetooth speaker
                                                       2 |
                                                           750.00
            aravid
                                                                                 pending
        2
            diya
                            smart watch
                                                       2
                                                           2000.00
                                                                     2025-08-30
                                                                                  pending
            rahul
                            shoe
                                                           150.00
                                                                     2025-08-12
                                                                                  pending
                                                                     2025-07-28
                                                            370.00
        4
            meera
                            lamp
                                                       4
                                                                                  pending
        6 | ravi
                           suit case
                                                          1499.00
                                                                    2025-01-08 | pending
```

--rename column

```
--update of all rows
update orders
set status='deliverd';
```

| order_id | customer_name | items_name | quantity | price | order_date | status |
|----------|---------------|-------------------|----------|---------|------------|----------|
| 1 | aravid | bluetooth speaker | 2 | 750.00 | 2025-08-15 | deliverd |
| 2 | diya | smart watch | 2 | 2000.00 | 2025-08-30 | deliverd |
| 3 | rahul | shoe | 3 | 150.00 | 2025-08-12 | deliverd |
| 4 | meera | lamp | 4 | 370.00 | 2025-07-28 | deliverd |
| 6 | ravi | suit case | 2 | 1499.00 | 2025-01-08 | deliverd |

--update specific rows
update orders
set status='cancelled'
where customer_name='kavya';

| order_id | customer_name | items_name | quantity | price | order_date | status |
|----------|---------------|-------------------|----------|---------|------------|----------|
| 1 | aravid | bluetooth speaker | 2 | 750.00 | 2025-08-15 | deliverd |
| 2 | diya | smart watch | | | 2025-08-30 | |
| 3 | rahul | shoe | 3 | 150.00 | 2025-08-12 | deliverd |
| 4 | meera | lamp | 4 | 370.00 | 2025-07-28 | deliverd |
| 6 l | ravi | suit case | 2 | 1499.00 | 2025-01-08 | deliverd |

--DCL --select data select * form orders;

| order_id | customer_name | items_name | quantity | price | order_date | status |
|----------|---------------|-------------------|----------|---------|------------|----------|
| 1 | aravid | bluetooth speaker | | | 2025-08-15 | |
| 2 | diya | smart watch | 2 | 2000.00 | 2025-08-30 | deliverd |
| 3 | rahul | shoe | 3 | 150.00 | 2025-08-12 | deliverd |
| 4 | meera | lamp | 4 | 370.00 | 2025-07-28 | deliverd |
| 6 | ravi | suit case | 2 | 1499.00 | 2025-01-08 | deliverd |

--sort data
select * from orders
order by customer_name asc;

| order_id | customer_name | items_name | quantity | price | order_date | status |
|-----------------|--|---|-----------------|-----------------------------|--|----------------------------------|
| 2 4 3 | aravid diya meera rahul ravi | bluetooth speaker smart watch lamp shoe suit case | 2 4 3 | 2000.00 370.00 150.00 | 2025-08-15 2025-08-30 2025-07-28 2025-08-12 2025-01-08 | deliverd deliverd deliverd |