```
CREATE TABLE category (
   category_id INT AUTO_INCREMENT PRIMARY KEY,
   category_name VARCHAR(255) NOT NULL,
   avg_price_in_category INT NOT NULL,
   no_of_products INT NOT NULL
);
CREATE TABLE products (
   product id INT AUTO INCREMENT PRIMARY KEY,
   category_id INT NOT NULL ,
   product_name VARCHAR(255) NOT NULL,
   product description VARCHAR(255) NOT NULL,
   product_images VARCHAR(255) NOT NULL,
   FOREIGN KEY (category_id) REFERENCES category (category_id) ON DELETE
CASCADE
);
INSERT INTO category
(category_name,avg_price_in_category,no_of_products,in_stock)
VALUES
("Smart Phones", 10000, 1000, 0),
("Mens Clothing", 1000, 20000, 1),
("Toys", 200, 50000, 0),
("Electronics", 3000, 90000, 1),
("Food", 200, 1000, 0),
("Medicines", 200, 2000000, 1),
("Pet Food",500,100000,1);
 TB, "remote car", "not playing", "url5"),(10, "football", "round", "url6");

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`ecom`.`products`, CONSTRAINT `products
 ASCADE)
mysql> INSERT INTO category (category_name,avg_price_in_category,no_of_products,in_stock)VALUES ("Smart Phones",10000,1000,0)
ood",200,1000,0),("Medicines",200,2000000,1),("Pet Food",500,100000,1);
Query OK, 7 rows affected (1.04 sec)
Records: 7 Duplicates: 0 Warnings: 0
 mysql> SELECT * from category;
  category_id | category_name | avg_price_in_category | no_of_products | in_stock |
              Smart Phones
                                           10000
                                                          1000
              Mens Clothing
                                            1000
                                                          20000
             | Toys
| Electronics
                                            3000
                                                                       0
             Food
                                            200
                                                          1000
              Medicines
                                            200
              Pet Food
               Smart Phones
                                                           1000
             | Mens Clothing
                                            1000
                                                          20000
              Toys
Electronics
          10
                                            200
```

```
INSERT INTO products
(category_id,product_name,product_description,product_images)
VALUES
(1,"Apple","good","url"),
(1,"Lenovo","fine","url2"),
(1,"oppo","good","url3"),
(9,"Fire Truck","playable","url4"),
(9,"remote car","not playing","url5"),
(9,"football","round","url6");
```

```
mysql> select * from product;
ERROR 1146 (42S02): Table 'ecom.product' doesn't exist
mysql> select * from products;
 product_id | category_id | product_name | product_description | product_images |
                                             good
fine
                          1 |
                             Apple
                                                                    url2
                             Lenovo
                          1 |
                                                                     url3
                          1
                                              good
                             oppo
                             Fire Truck
                                              playable
                                                                     url4
          16
                             remote car
football
                                              not playing
                                                                     url5
                          9 |
                                                                     url6
          18
                                             round
6 rows in set (0.00 sec)
mysql>
```

```
#sub query with set membership operator in
SELECT product_name
FROM products
WHERE category_id IN
(SELECT category_id
FROM category
WHERE in_stock=1
);
```

```
# sub query with set not in
SELECT product_name
FROM products
WHERE category_id NOT IN
(SELECT category_id
FROM category
WHERE in_stock=1
);
```

```
# sub query with = ANY
SELECT product_name
FROM products
WHERE category_id =
ANY(SELECT category_id
FROM category
WHERE in_stock=1
);
```

```
# sub query with = SOME
SELECT product_name
FROM products
WHERE category_id =
ANY(SELECT category_id
FROM category
WHERE in_stock=1
);
```