```
create table merchant (
  M_id varchar2(5) PRIMARY KEY,
  M_name varchar2(15),
  Rating float CHECK(rating>=0 AND rating<=15)
);
insert into merchant values('1s','Abhay',3.3);
insert into merchant values('2s','Priya',1.0);
insert into merchant values('3s','Kishan',4.8);
insert into merchant values('4s','Vicky',4.3);
insert into merchant values('5s','Sneha',3.6);
insert into merchant values('6s','Pushpa',2.8);
create table category (
    category_id varchar(5) PRIMARY KEY,
    category Varchar(20)
);
insert into category values('1c','books');
```

```
insert into category values('2c','footwear');
insert into category values('3c', 'home decor');
insert into category values('4c', 'accessories');
create table product (
  product_id varchar(5) PRIMARY KEY,
  product varchar(50),
  amount number,
  quantity_remaining number,
  category_id varchar(5),
  m_id varchar(5),
  FOREIGN KEY(category_id) REFERENCES
category(category_id),
  FOREIGN KEY(m_id) REFERENCES
merchant(m_id)
);
insert into product values('1p', 'the programming
language of oracle', 350, 4, '1c', '1s');
insert into product values('2p', 'nike white shoes
',7000,2, '2c','3s');
```

```
insert into product values('3p', 'white
lamp',800,3,'3c','3s');
insert into product values('4p', 'antique silver
earrings',400,7, '4c','2s');
insert into product values('5p','antique silver
bracelet',700,5,'4c','6s');
insert into product values('6p', 'catwalk leather
flats',1599,3,'2c','4s');
insert into product values('7p','introduction to
java',650,8,'1c','5s');
insert into product values('8p', 'portico kingsize
bedsheet',1999,1,'3c','1s');
insert into product values('9p','book
rack',999,1,'3c','4s');
insert into product values('10p','artificial
intelligence, 3rd edition',570,9,'1c','2s');
insert into product values('11p', 'introduction to
python',630,10,'1c','5s');
create table customer (
  customer_id varchar2(5) PRIMARY KEY,
  name varchar2(30) NOT NULL,
```

```
password varchar2(25) NOT NULL );
```

```
insert into customer values('1cu', 'john', 'john123');
insert into customer values('2cu', 'ben', 'ben123');
insert into customer values('3cu', 'lili', 'lili123');
insert into customer values('4cu', 'tom', 'tom123');
insert into customer values('5cu', 'rohit', 'rohit123');
insert into customer values('6cu', 'raj', 'raj123');
insert into customer values('7cu', 'aditya',
'aditya123');
insert into customer values('8cu', 'alice', 'alice123');
insert into customer values ('9cu', 'james',
'james123');
insert into customer values('10cu', 'mike',
'mike123');
create table orders (
  order_id varchar2(5) PRIMARY KEY,
  customer_id varchar2(5),
```

```
amount number,
  orderdate DATE,
  FOREIGN KEY(customer_id) REFERENCES
customer(customer id)
);
insert into orders values('10','1cu',350,'21-jan-22');
insert into orders values('20','1cu',350,'20-
may-22');
insert into orders values('30','2cu',800, '20-
may-22');
insert into orders values('40', '3cu', 400, '12-feb-22');
insert into orders values('50','4cu',630, '11-jan-22');
insert into orders values('60','4cu',630, '12-jan-22');
insert into orders values('70','6cu',999, '06-jan-22');
insert into orders values('80','7cu',999, '07-
mar-22');
insert into orders values ('90', '8cu', 1999, '20-
mar-22');
insert into orders values('10o','10cu',1599, '17-
mar-22');
```

```
create table order_product (
  order_id varchar(5) PRIMARY KEY,
  product_id varchar(5),
  quantity number,
  m_id varchar(5),
  original_amt number,
  discount number,
  product_rating float,
  FOREIGN KEY(order_id) REFERENCES
orders(order_id),
  FOREIGN KEY(product_id) REFERENCES
product(product_id),
  FOREIGN KEY(m_id) REFERENCES
merchant(m_id)
);
insert into order_product
values('10','1p',1,'1s',350,0,4);
insert into order_product
values('20','1p',1,'1s',350,0,5);
```

```
insert into order_product
values('30','3p',1,'5s',800,0,4);
insert into order_product
values('40','4p',1,'2s',400,0,3);
insert into order_product
values('50','4p',1,'2s',400,0,2);
insert into order_product
values('60','6p',1,'2s',1599,0,1);
insert into order_product
values('70','7p',1,'5s',650,0,1);
insert into order_product
values('80','8p',1,'1s',1999,0,5);
insert into order_product
values('90','9p',1,'4s',999,0,4);
insert into order_product
values('10o','11p',1,'4s',999,0,4);
1
select * from product
where product_id in (
  select product_id from (
     select product_id,count(order_id) from
```

```
order_product
     group by product_id
     having count(order_id) = (
        select min(count(order_id)) from
order_product
       group by product_id
);
2
insert into merchant values('7s','xavi',4.3);
3
insert into product values('12p','jabra
headphone',5000,2,'4c','2s');
4
insert into category values('5c','lifestyle');
```

```
5
select * from product
where product_id not in (
  select product_id from order_product
);
6
select * from merchant
where m_id IN (
  select m_id from product
  where product_id in (
     select product_id from order_product
     where order_id in (
       select order_id from orders
       where not orderdate = sys date
);
```

```
7
select * from merchant
where m_id in (
  select m_id from orders, order_product
  where orders.order_id=order_product.order_id
  and orderdate = '20-MAY-22'
  having count(m_id) = (
     select max(count(m_id)) from orders,
order_product
     where orders.order id =
order_product.order_id
     and orderdate = '20-MAY-22'
    group by m_id
  group by m_id
);
8
select * from merchant
where rating = (
```

```
select max(rating) from merchant
);
9
select* from customer
where customer_id = (
  select customer_id from (
     select customer_id, category_id,
count(order_id) from (
       select o.order_id, o.product_id,
p.category_id, oi.customer_id from product p,
orders oi, order_product o
       where o.order_id = oi.order_id and
o.product_id = p.product_id
     group by customer_id, category_id
     having count(order_id) > 1
);
```

```
select* from merchant
where m_id in (
  select m_id from (
     select m_id, count(order_id), dense_rank()
over(order by count(order_id) desc) r from
order_product
     group by m_id
  where r=3
);
11
select* from product
where quantity_remaining <= 5;
12
alter table merchant
add address varchar2(15);
```

```
create table old_orders (
    order_id varchar2(5),
    customer_id varchar2(5),
    amount number,
    orderdate date
);

14
insert into old_orders
select* from orders
where (extract(year from orderdate)) < 22;</pre>
```