Vendors:

```
create table vendor
(vendor_id number primary key NOT NULL,
company varchar(15),
category varchar(15),
product_id number,
product_name varchar(15),
quantity number,
purchase_date date,
FOREIGN KEY( product_id )
    REFERENCES product( product_id)
ON DELETE CASCADE
);
   create table vendor
  (vendor id number primary key NOT NULL,
  company varchar(15),
  category varchar(15),
product id number,
product name varchar(15),
  quantity number,
  purchase date date,
  FOREIGN KEY( product id )
REFERENCES product( product id)
ON DELETE CASCADE
  Results Explain Describe Saved SQL History
 Table created.
 0.15 seconds
```

Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT

Trigger for vendor insert

```
create or replace trigger vndr prduct
before insert on vendor
for each row
declare
fasih number;
checking number;
checking1 number;
begin
select count(name) into checking
from category
where name = :new.category;
if checking = 0
then
insert into category(name)values(:new.category);
end if;
select count(product_id) into checking1
from product
where product_id = :new.product id;
if checking 1 = 0
then
SELECT cid into fasih FROM category
where name=:new.category;
insert into
product(product_id,product_name,category,quantity)values(:new.product_id,:new.product
ct name,fasih,:new.quantity);
else
update product
set quantity=quantity + :new.quantity
where product id = :new.product id;
end if;
end;
```

```
create or replace trigger vndr prduct
before insert on vendor
for each row
declare
fasih number;
checking number;
checking number;
begin
select count(name) into checking
from category
where name = :new.category;
if checking = 0
then
insert into category(name)values(:new.category);
end if;
select count(product_id) into checking1
from product

Results Explain Describe Saved SQL History

Trigger created.

0.02 seconds
```

Trigger for vendor update:

Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT

create or replace trigger vndr_prduct
before update on vendor
for each row
declare
fasih number;
begin
insert into category(name)values(:new.category);
SELECT cid into fasih FROM category
where name=:new.category;

insert into

product(product_id,product_name,category,quantity)values(:new.product_id,:new
.product_name,fasih,:new.quantity);
end;



Category table:

```
reate table category
  (cid number primary key,
  name varchar(15)
  drop table <u>category</u>
  desc product
  select * from product
  vendor
  vendor
  Results Explain Describe Saved SQL History
 Table created.
 0.07 seconds
   Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT
Category:
CREATE TABLE category (
 cid NUMBER PRIMARY KEY,
 name VARCHAR2(15) NOT NULL
);
Sequence for cid
CREATE SEQUENCE cat_seq START WITH 1;
select SEQUENCE
desc category
CREATE OR REPLACE TRIGGER category_trg
BEFORE INSERT ON category
FOR EACH ROW
BEGIN
 :NEW.cid := cat_seq.NEXTVAL;
end;
```

```
CREATE SEQUENCE cid_seq START WITH 1 INCREMENT BY 1;

CREATE TABLE category

(
    cid NUMBER DEFAULT cid_seq.nextval PRIMARY KEY,
    name VARCHAR2(15) NOT NULL
);
```

Results Explain Describe Saved SQL History

Sequence created.

0.01 seconds

Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT

```
desc category
CREATE OR REPLACE TRIGGER category trg
BEFORE INSERT ON category
FOR EACH ROW
BEGIN
:NEW.cid_:= cat seq.NEXTVAL;
end;

/

drop table category
desc product
select * from product
vendor
vendor
vendor
create or replace trigger vndr update

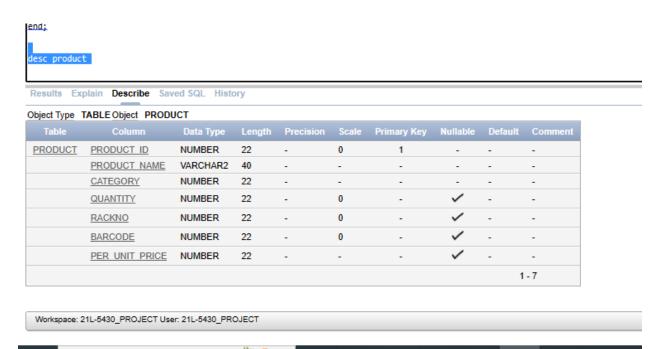
Results Explain Describe Saved SQL History
```

Trigger created.

0.13 seconds

Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT

Product table:



ALTER TABLE product

ADD CONSTRAINT fk_prod_cat FOREIGN KEY (category)

REFERENCES category (cid) on delete cascade;

```
ALTER TABLE product
ADD CONSTRAINT fk prod cat FOREIGN KEY (category)
REFERENCES category (cid) on delete cascade;

Results Explain Describe Saved SQL History

Table altered.

0.04 seconds
```

Sales table:

```
CREATE TABLE sales (
    customer_id number,
    product_id number,
    quantity number,
    per_unit_price number,
    total number,
    CONSTRAINT fk_sal_cust FOREIGN KEY (customer_id)
        REFERENCES customer(customer_id) ON DELETE CASCADE,
    CONSTRAINT fk_sal_prod FOREIGN KEY (product_id)
        REFERENCES product(product_id)
```

);

```
CREATE TABLE sales (
    customer_id number,
    product_id number,
    quantity number,
    per_unit_price number,
    total number,
    CONSTRAINT fk_sal_cust FOREIGN KEY (customer_id)
        REFERENCES customer(customer_id) ON DELETE CASCADE,
    CONSTRAINT fk_sal_prod FOREIGN KEY (product_id)
        REFERENCES product(product_id)
);
)
```

Results Explain Describe Saved SQL History

Table created.

0.28 seconds

Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT

```
CREATE SEQUENCE sal seg START WITH 1:
truncate table sales
desc sales
select * from
sales
alter table <u>sales</u>
add sale id number primary key;
```

Results Explain Describe Saved SQL History

Sequence created.

0.01 seconds

Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT

Created sequence of for sid

CREATE OR REPLACE TRIGGER sale_trg **BEFORE INSERT ON sales** FOR EACH ROW **BEGIN** :NEW.sale_id := sal_seq.NEXTVAL;

end;

```
add sale 1g number primary Key;

CREATE OR REPLACE TRIGGER sale trg

BEFORE INSERT ON sales

FOR EACH ROW

BEGIN

:NEW.sale id := sal seq.NEXTVAL;

end;

Results Explain Describe Saved SQL History

Trigger created.

0.10 seconds
```

Trigger on sales table:

```
create or replace trigger sal_info
before insert on sales
for each row
declare
checking number;
begin
select count(customer_id) into checking
from customer
where customer_id = :new.customer_id;
if checking = 0
then
insert into customer (customer_id) values(:new.customer_id);
end if;
update product
set quantity=quantity - :new.quantity
where (product id=:new.product id) and (quantity >= :new.quantity);
end;
```

```
onob rutgger sat tuto
create or replace trigger sal info
before insert on sales
for each row
declare
checking number;
begin
select count(customer id) into checking
from customer
where customer id = :new.customer id;
if checking = 0
then
insert into customer (customer id) values(:new.customer_id);
end if;
update product
set quantity=quantity - :new.quantity
where (product id= :new.product id) and (quantity >= :new.quantity);
end;
Results Explain Describe Saved SQL History
Trigger created.
0.05 seconds
```

Account table:

```
create table account (
account_id number primary key,
sid number,
customer_id number,
revenue number,
expense number,
profit number,
constraint fk__sal_account foreign key (sid)
references sales(sale_id)
);
```

```
CREATE SEQUENCE acc seq START WITH 1;
truncate table sales
desc sales
select * from
sales
alter table sales
add sale_id number primary key;
```

Results Explain Describe Saved SQL History

Sequence created.

0.02 seconds

127.0.0.1:8080/apex/f?p=4500:1000:2353192907915508::NO::: ^{ECT}

Sequence for account_id

CREATE OR REPLACE TRIGGER acc_trg
BEFORE INSERT ON account
FOR EACH ROW
BEGIN
:NEW.account_id := acc_seq.NEXTVAL;
end;

```
CREATE OR REPLACE TRIGGER acc trg
BEFORE INSERT ON account
FOR EACH ROW
BEGIN
:NEW.account id := acc_seq.NEXTVAL;
end!

desc account

Results Explain Describe Saved SQL History

Trigger created.

0.09 seconds
```

Trigger on sale insert

```
CREATE OR REPLACE TRIGGER fk_acc_sal
after INSERT ON sales
FOR EACH ROW
DECLARE
    exp float:=:new.per_unit_price;
    prof float;
BEGIN
--DBMS_output.put_line(exp);
exp := exp*0.1;
exp:=exp* :new.quantity;
    exp := :new.total - exp;
    prof := :new.total - exp;
INSERT into account(sid, customer_id, revenue, expense, profit)
VALUES (:new.sale_id, :new.customer_id, :new.total, exp, prof);
```

END;

```
CREATE OR REPLACE TRIGGER fk acc sal
after INSERT ON sales
FOR EACH ROW
DECLARE

exp float:=:new.per unit price;
prof float;
BEGIN
--DBMS output.put line(exp);
exp := exp*0.1;
exp:=exp* :new.quantity;
exp := :new.total - exp;
prof := :new.total - exp;
INSERT into account(sid, customer id, revenue, expense, profit)
VALUES (:new.sale id, :new.customer id, :new.total, exp, prof);
END:

Results Explain Describe Saved SQL History
```

Trigger created.

0.02 seconds

```
_Workspace: 21L-5430_PROJECT User: 21L-5430_PROJECT
```

DML queries:

INSERT INTO sales (customer_id,product_id,quantity,per_unit_price,total) VALUES(" + cid.Text + "'," + pid.Text + "'," + quantity.Text + "'," + perprice.Text + "'," + total.Text + "')";

SELECT per_unit_price FROM product WHERE product_id = :productId SELECT * FROM account select * from product where quantity<10

```
INSERT INTO product VALUES(" + id.Text + "," + name.Text + "," + comboBox1.SelectedValue + "," + quantity.Text + "," + rack.Text + "," + barcode.Text + "," + price.Text + ")";
```

Use of joins to display inventory lvl:

select p.product_id,p.product_name,c.name as category,p.category as cid,p.quantity as stock_avilable,p.BARCODE from product p,category c where p.category=c.cid;

select p.product_id.p.product_name.c.name as category.p.category as cid.p.quantity as stock_avilable.p.BARCODE from product p.category c where p.category=c.cid;

Results Explain Describe Saved SQL History					
PRODUCT_ID	PRODUCT_NAME	CATEGORY	CID	STOCK_AVILABLE	BARCODE
6787	Ac	electronic	1	45	7677
3535	pepsi	food	23	8	9888
230	car_wash	accessories	31	123	-
999	body kits	accessories	31	100	3533

4 rows returned in 0.01 seconds <u>Download</u>

Workshace: 211-5430 PROJECT User: 211-5430 PROJECT

For view Reports:

select p.product_id,p.product_name,c.name as category,p.category as cid,p.quantity as stock_avilable,p.BARCODE from product p,category c where p.category=c.cid;