Project on E-commerce
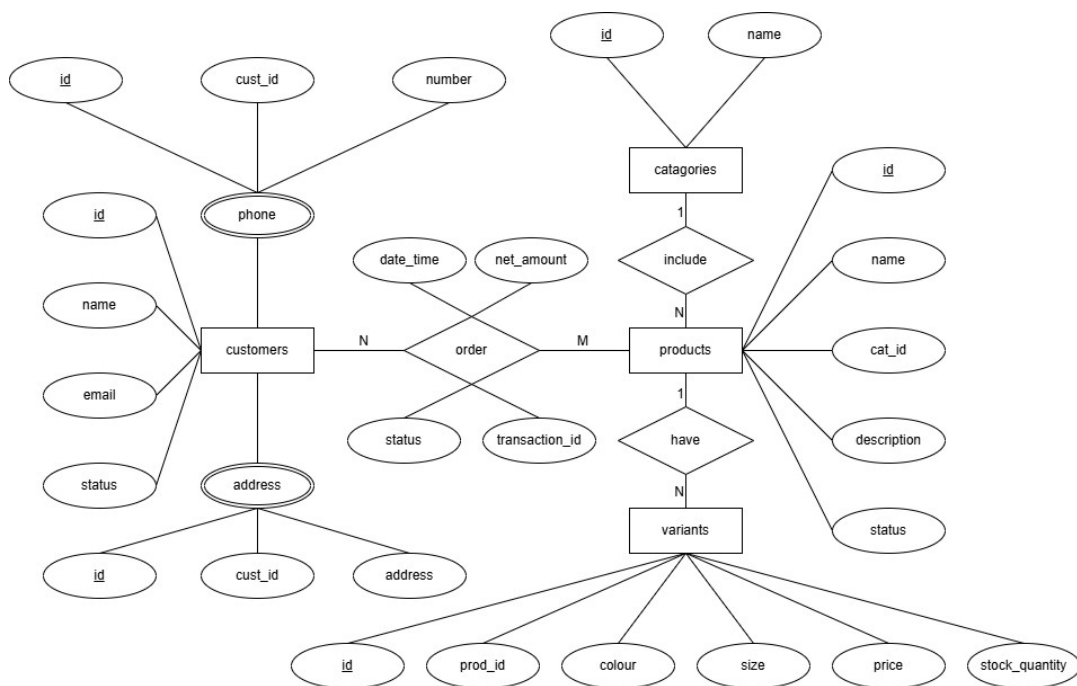
Identify the Attributes and Primary Key for Each Entity

1. Products(id, name, cat_id, description, status)
2. Customers(id, name, email, phone, address, status)
3. Categories(id, name)
4. Variants (id, prod_id, colour, size, price, stock_quantity)

Relation:

a. Customers-order-Products (Many to Many)
b. Categories-include-Products (One to Many)
c. Products-have-Variants (One to Many)

Entity Relationship (ER) Diagram :

Table:

1. products(<u>id</u>, name, *cat_id*, description, status)
2. categories(<u>id</u>, name)
3. variants (<u>id</u>, *prod_id*, colour, size, price, stock_quantity)
4. customers(<u>id</u>, name, email, phone, address, status)
5. phone(<u>id</u>, *cust_id*, number)
6. address(<u>id</u>, *cust_id*, address)
7. orders(<u>id</u>, *cust_id*, total_amount, dis_amount, net_amount, status, pay_status, pay_type, transaction_id)

Sql code for Create Table:

```
CREATE TABLE `address` (
 `id` int(11) NOT NULL,
 `cust_id` int(11) NOT NULL,
 `address` varchar(250) NOT NULL
)
CREATE TABLE `catagories` (
 `id` int(11) NOT NULL,
 `name` varchar(25) NOT NULL
)
CREATE TABLE `customers` (
 `id` int(11) NOT NULL,
 `name` varchar(25) NOT NULL,
 `email` varchar(25) NOT NULL,
 `phone` varchar(25) DEFAULT NULL,
 `address` varchar(250) DEFAULT NULL,
 `status` enum('active','inactive','block') NOT NULL
)
REATE TABLE `orders` (
 `id` int(11) NOT NULL,
 `cust_id` int(11) NOT NULL,
 `total_amount` decimal(7,2) NOT NULL,
 `dis_amount` decimal(7,2) NOT NULL,
 `net_amount` decimal(7,2) NOT NULL,
```

```
  `status` enum('placed','processing','shipping','delivered') NOT NULL,
  `pay_status` enum('paid','unpaid') NOT NULL,
  `pay_type` enum('online','cash') NOT NULL,
  `transaction_id` varchar(20) NOT NULL
)
CREATE TABLE `phone` (
  `id` int(11) NOT NULL,
  `cust_id` int(11) NOT NULL,
  `number` varchar(25) NOT NULL
)
CREATE TABLE `products` (
  `id` int(11) NOT NULL,
  `name` varchar(25) NOT NULL,
  `cat_id` int(11) DEFAULT NULL,
  `description` varchar(250) DEFAULT NULL,
  `status` enum('available','unavailable') NOT NULL
)
REATE TABLE `variants` (
  `id` int(11) NOT NULL,
  `prod_id` int(11) NOT NULL,
  `colour` varchar(9) NOT NULL,
  `size` varchar(5) NOT NULL,
  `price` decimal(7,2) NOT NULL,
  `stock_quantity` int(5) NOT NULL
)
```

Design View: