Bảng material\_types gồm: ID\_MATERIAL\_TYPES, NAME\_MATERIAL\_TYPES, ID\_COMPANY

Bảng materials gồm : ID\_MATERIALS\_,ID\_MATERIAL\_TYPES,QUALITY, NAME\_, UNIT\_, QUANTITY\_ORDER\_ITEMS, COST\_PER\_UNIT\_,CREATED\_AT\_PRODUCTS, UPDATED\_AT\_PRODUCTS, ORIGIN VARCHAR(255), EXPIRY\_DATE DATETIME , ID\_COMPANY

Bảng inventory gồm: ID\_INVENTORY\_,ID\_MATERIALS\_,QUANTITY\_ORDER\_ITEMS, LAST\_UPDATED\_, STORAGE\_CONDITION

Bảng material\_orders gồm: ID\_MATERIAL\_ORDER INT, ID\_MATERIALS\_ INT , QUANTITY\_ORDERED INT, ORDER\_DATE DATETIME, DELIVERY\_DATE DATETIME, STATUS VARCHAR(255), TOTAL\_COST FLOAT, ID\_COMPANY

Bảng Bảng material\_order\_master gồm:  
**ID\_MATERIAL\_ORDER\_MASTER**,  
**ID\_COMPANY\_BUYER**,  
**ID\_COMPANY\_SELLER IT**,  
**ID\_COMPANY\_SHIP**,  
**ORDER\_DATE**,  
**DELIVERY\_DATE**,  
**STATUS**,  
**TOTAL\_COST**,  
**CREATED\_AT**,  
**UPDATED\_AT**

Bảng users gồm: ID\_USERS, ID\_ROLE, HO\_TEN, EMAIL, \_PASSWORD\_HASH\_USERS, SO\_DIEN\_THOAI, , NGAY\_TAO\_USER, NGAY\_CAP\_NHAT\_USER, IS\_DELETE\_USERS, AVATAR, DIA\_CHI\_Provinces, DIA\_CHI\_Districts, DIA\_CHI\_Wards, DIA\_CHI\_STREETNAME, TRANG\_THAI\_USER , ID\_COMPANY

Bảng cart gồm: ID\_CART, ID\_PRODUCT, ID\_USERS, CREATED\_AT\_CART

Bảng role gồm: ID\_ROLE, NAME\_ROLE, LIST\_PERMISION, IS\_DELETE,CODE\_NAME , ID\_COMPANY

Bảng products gồm: ID\_PRODUCT, ID\_CATEGORIES\_, NAME\_PRODUCTS, DESCRIPTION\_PRODUCTS, PRICE\_PRODUCTS, STOCK\_PRODUCTS, IMAGE\_URL\_PRODUCTS, CREATED\_AT\_PRODUCTS, UPDATED\_AT\_PRODUCTS , ID\_COMPANY

Bảng categories gồm: ID\_CATEGORIES\_, NAME\_CATEGORIES\_

**Bảng production\_plans gồm**: ID\_PRODUCTION\_PLANS, ID\_PRODUCT, ID\_USERS, PLANNED\_START\_PRODUCTION\_PLANS, PLANNED\_END\_PRODUCTION\_PLANS, ACTUAL\_START\_PRODUCTION\_PLANS, ACTUAL\_END\_PRODUCTION\_PLANS, STATUS\_PRODUCTION\_PLANS, NOTE\_PRODUCTION\_PLANS

Bảng production\_steps gồm: ID\_PRODUCTION\_STEPS\_, ID\_PRODUCTION\_PLANS, ID\_USERS, ID\_EQUIPMENT, STEP\_NAME\_PRODUCTION\_STEPS, START\_TIME\_PRODUCTION\_STEPS, END\_TIME\_PRODUCTION\_STEPS, STATUS\_PRODUCTION\_STEPS

Bảng production\_materials gồm: ID\_PRODUCT\_MATERIALS, ID\_PRODUCTION\_PLANS, ID\_MATERIALS\_,QUANTITY\_PER\_UNIT\_PRODUCT\_MATERIALS, UNIT\_PRODUCT\_MATERIALS

Bảng orders gồm: ID\_ORDERS\_, ID\_USERS, DATE\_ORDER, TOTAL\_AMOUNT\_ORDER, PAYMENT\_STATUS\_ORDER, SHIPPING\_STATUS\_ORDER, SHIPPING\_ADDRESS, SHIPPING\_METHOD, SHIPPING\_COST

Bảng order\_items gồm: ID\_ORDER\_ITEMS, ID\_PRODUCT, ID\_ORDERS\_, QUANTITY\_INVENTORY, PRICE\_ORDER\_ITEMS

Bảng role gồm: ID\_ROLE, NAME\_ROLE, LIST\_PERMISION, IS\_DELETE, CODE\_NAME

Bảng companies gồm : ID\_COMPANY INT PRIMARY KEY AUTO\_INCREMENT,NAME\_COMPANY VARCHAR(255) NOT NULL,

TYPE\_COMPANY VARCHAR(50), -- Ví dụ: 'MANUFACTURER', 'SUPPLIER', 'TRANSPORT'

ADDRESS VARCHAR(255), -- Địa chỉ tổng quát, có thể giữ hoặc xóa nếu dùng các trường chi tiết

DIA\_CHI\_Provinces VARCHAR(100), -- Tỉnh/Thành phố

DIA\_CHI\_Districts VARCHAR(100), -- Quận/Huyện

DIA\_CHI\_Wards VARCHAR(100), -- Phường/Xã

DIA\_CHI\_STREETNAME VARCHAR(255), -- Tên đường

PHONE VARCHAR(50),

EMAIL VARCHAR(255),

AVATAR VARCHAR(255), -- Đường dẫn đến ảnh đại diện công ty

SLUG VARCHAR(255) UNIQUE, -- Định danh URL, ví dụ: ten-cong-ty

CREATED\_AT DATETIME DEFAULT CURRENT\_TIMESTAMP,

UPDATED\_AT DATETIME DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

STATUS VARCHAR(50) DEFAULT 'ACTIVE', ID\_COMPANY\_TYPE

ID\_COMPANY\_TYPE

Bảng company\_types gồm : ID\_COMPANY\_TYPE INT PRIMARY KEY AUTO\_INCREMENT,NAME\_COMPANY\_TYPE VARCHAR(50) NOT NULL

Trong bảng transport\_orders gồm : ID\_TRANSPORT\_ORDER INT AUTO\_INCREMENT PRIMARY KEY, ID\_COMPANY INT, -- công ty vận chuyển (TRANSPORT), ID\_MATERIAL\_ORDER INT, -- nếu vận chuyển , ID\_ORDER INT, DELIVERY\_DATE DATETIME, STATUS VARCHAR(100), SHIPPING\_COST FLOAT, CREATED\_AT DATETIME DEFAULT CURRENT\_TIMESTAMP, UPDATED\_AT DATETIME DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP, NOTE TEXT

Trong bảng `equipment` (

`ID\_EQUIPMENT` int NOT NULL AUTO\_INCREMENT,

`NAME\_EQUIPMENT` varchar(255) DEFAULT NULL,

`TYPE\_EQUIPMENT` varchar(255) DEFAULT NULL,

`STATUS` varchar(255) DEFAULT NULL,

`LAST\_MAINTENANCE` varchar(255) DEFAULT NULL,

`CREATED\_AT` datetime DEFAULT NULL,

`UPDATED\_AT` datetime DEFAULT NULL,

CREATE TABLE `product\_instances` (

`ID\_PRODUCT\_INSTANCE` int NOT NULL AUTO\_INCREMENT,

`UID` char(36) NOT NULL,

`ID\_PRODUCT` int NOT NULL,

`SERIAL\_CODE` varchar(100) NOT NULL,

`ID\_USERS` int NOT NULL,

`ID\_PRODUCTION\_PLANS` int DEFAULT NULL,

`DATE\_CREATED` datetime DEFAULT CURRENT\_TIMESTAMP,

`STATUS` varchar(50) DEFAULT 'IN\_STOCK',

PRIMARY KEY (`ID\_PRODUCT\_INSTANCE`),

UNIQUE KEY `UID` (`UID`),

UNIQUE KEY `SERIAL\_CODE` (`SERIAL\_CODE`),

KEY `ID\_PRODUCT` (`ID\_PRODUCT`),

KEY `ID\_USERS` (`ID\_USERS`),

KEY `ID\_PRODUCTION\_PLANS` (`ID\_PRODUCTION\_PLANS`),

CONSTRAINT `product\_instances\_ibfk\_1` FOREIGN KEY (`ID\_PRODUCT`) REFERENCES `products` (`ID\_PRODUCT`),

CONSTRAINT `product\_instances\_ibfk\_2` FOREIGN KEY (`ID\_USERS`) REFERENCES `users` (`ID\_USERS`),

CONSTRAINT `product\_instances\_ibfk\_3` FOREIGN KEY (`ID\_PRODUCTION\_PLANS`) REFERENCES `production\_plans` (`ID\_PRODUCTION\_PLANS`)