# 4 UML Normalized

**shipping**

| | |
|---|---|
| PK | shipping_id : int |
| | shipping_date : DATE |
| FK | shipping_company_id: int |
| FK | customer_id : int |

**customers**

| | |
|---|---|
| PK | customer_id : int |
| | name : VARCHAR (30) |
| | email : VARCHAR (30) |
| | phone : int |
| FK | address_id : int |

**shipping_companies**

| | |
|---|---|
| PK | shipping_company_id : int |
| | company_name: VARCHAR(30) |

**address**

| | |
|---|---|
| PK | address_id : int |
| | zip_code : int |
| | city : VARCHAR (30) |
| | street : VARCHAR (30) |
| | house_number : int |

**account**

| | |
|---|---|
| PK | account_id : int |
| | username : VARCHAR (50) |
| | password : VARCHAR (50) |
| FK | customer_id : int |
| FK | invoice_id : int |

**e_commerce**

| | |
|---|---|
| PK | commerce_id : int |
| FK | product_id : int |
| FK | company_id : int |
| FK | cart_id : int |

**companies**

| | |
|---|---|
| PK | company_id : int |
| 2 | name VARCHAR (30) |

**products**

| | |
|---|---|
| PK | product_id : int |
| | name : VARCHAR (30) |
| | description : VARCHAR (150) |
| | price : int |

**products_catalog**

| | |
|---|---|
| PK | catalog_id : int |
| FK | product_id : int |
| FK | account_id : int |

**invoice**

| | |
|---|---|
| PK | invoice_id : int |
| | invoice_date : DATE |
| FK | product_id : int |
| FK | shipping_id : int |
| FK | payment_id : int |
| FK | commerce_id : int |

**cart**

| | |
|---|---|
| PK | cart_id : int |
| FK | catalog_id : int |
| FK | payment_id : int |

**payment**

| | |
|---|---|
| PK | payment_id : int |
| | purchase_date : DATE |
| FK | payment_company_id : int |

**payment_companies**

| | |
|---|---|
| PK | payment_company_id : int |
| | company_name: VARCHAR(30) |