Database

NGUYEN HongPhuong
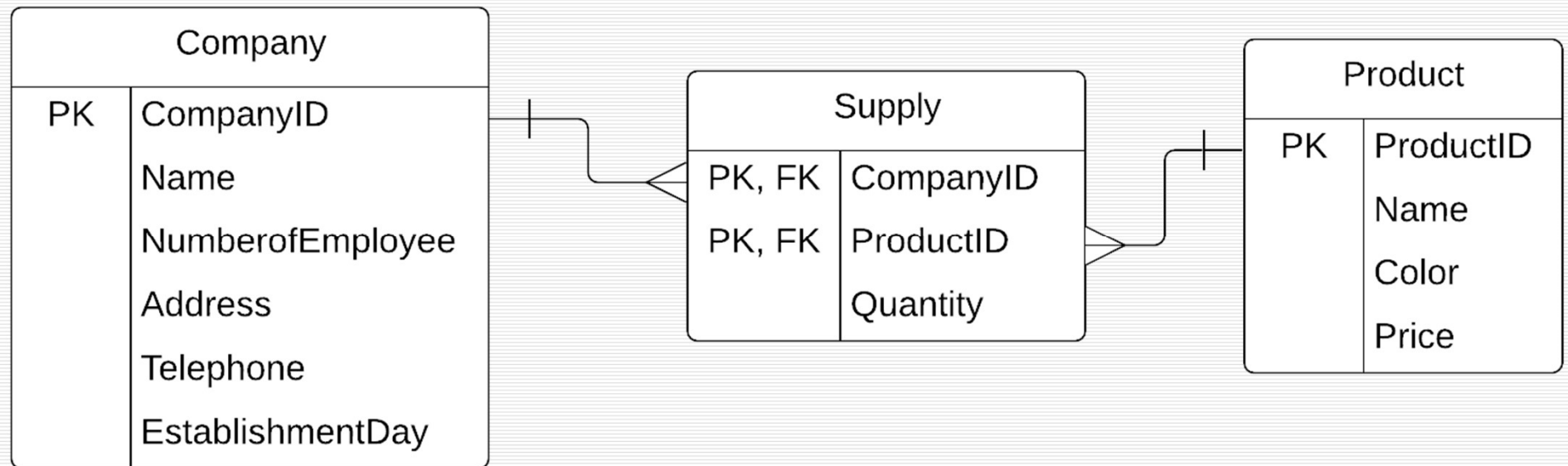
Email: phuongnh@soict.hust.edu.vn

Site: http://users.soict.hust.edu.vn/phuongnh

Face: https://www.facebook.com/phuongnhbk

Hanoi University of Science and Technology

☐ An Entity Relationship Diagram

Company

PK	CompanyID
	Name
	NumberofEmployee
	Address
	Telephone
	EstablishmentDay

Supply

PK, FK	CompanyID
PK, FK	ProductID
	Quantity

Product

PK	ProductID
	Name
	Color
	Price

Code for mysql

```
CREATE DATABASE `CompanySupplyProduct`;

CREATE TABLE `Company` (
  `CompanyID` SMALLINT AUTO_INCREMENT,
  `Name` CHARACTER VARYING(35),
  `NumberofEmployee` SMALLINT,
  `Address` CHARACTER VARYING(100),
  `Telephone` CHARACTER(14),
  `EstablishmentDay` DATE,
  PRIMARY KEY (`CompanyID`)
);
```

Code for mysql

```sql
CREATE TABLE `Product` (
  `ProductID` SMALLINT AUTO_INCREMENT,
  `Name` CHARACTER VARYING(35),
  `Color` CHARACTER(12),
  `Price` DECIMAL(9,2),
  PRIMARY KEY (`ProductID`)
);

CREATE TABLE `Supply` (
  `CompanyID` SMALLINT NOT NULL,
  `ProductID` SMALLINT NOT NULL,
  `Quantity` SMALLINT,
  PRIMARY KEY (`CompanyID`, `ProductID`),
  FOREIGN KEY (`CompanyID`) REFERENCES
`Company`(`CompanyID`),
  FOREIGN KEY (`ProductID`) REFERENCES
`Product`(`ProductID`)
);
```

Code for SQL Server

```sql
CREATE DATABASE CompanySupplyProduct;

CREATE TABLE [Company] (
  [CompanyID] int IDENTITY(1,1),
  [Name] varchar(40),
  [NumberofEmployee] int,
  [Address] varchar(50),
  [Telephone] char(15),
  [EstablishmentDay] date,
  PRIMARY KEY ([CompanyID])
);

CREATE TABLE [Product] (
  [ProductID] int IDENTITY(1,1),
  [Name] varchar(40),
  [Color] char(14),
  [Price] decimal(10,2),
  PRIMARY KEY ([ProductID])
);
```

Code for SQL Server

```sql
CREATE TABLE [Supply] (
  [CompanyID] int,
  [ProductID] int,
  [Quantity] int,
  PRIMARY KEY([CompanyID],[ProductID]),
  FOREIGN KEY ([CompanyID]) REFERENCES [Company]([CompanyID]),
  FOREIGN KEY ([ProductID]) REFERENCES [Product]([ProductID])
);
```