-- drop tables to start over from scratch

DROP TABLE IF EXISTS profile;

DROP TABLE IF EXISTS product;

-- the CREATE profile entity

CREATE TABLE profile (

profileId INT UNSIGNED AUTO\_INCREMENT NOT NULL,

profileActivationToken CHAR(32),

profileAtHandle VARCHAR(32) NOT NULL,

-- to make sure duplicate data cannot exist, create a unique index

profileEmail VARCHAR(128) NOT NULL,

profileHash CHAR(128) NOT NULL,

-- to make something optional, exclude the not null

profilePhone VARCHAR(32),

profileSalt CHAR(64) NOT NULL,

UNIQUE(profileEmail),

UNIQUE(profileAtHandle),

-- this officiates the primary key for the entity

PRIMARY KEY(profileId)

);

-- create the product entity

CREATE TABLE product (

-- productId is the primary key

productId INT UNSIGNED AUTO\_INCREMENT NOT NULL,

-- this is for a foreign key; auto\_incremented is omitted by design

productUserId INT UNSIGNED NOT NULL,

productDescription VARCHAR(140) NOT NULL,

productPrice DECIMAL(10,2) NOT NULL,

-- this creates an index before making a foreign key

INDEX(productUserId),

-- this creates the actual foreign key relation

FOREIGN KEY(productUserId) REFERENCES profile(profileId),

-- and finally create the primary key

PRIMARY KEY(productId)

);