SQL scripts for database creation for each entity:

```
CREATE TABLE `User` (
 `UserID` int(11) NOT NULL,
 `Username` varchar(50) NOT NULL,
 `Password` varchar(50) NOT NULL,
 `Email` varchar(75) NOT NULL,
 `FirstName` varchar(255) DEFAULT NULL,
 `LastName` varchar(255) DEFAULT NULL,
 `ProfilePicURL` varchar(255) DEFAULT NULL,
 `DateOfBirth` date DEFAULT NULL,
 `LastLogin` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE
current timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4 danish ci;
ALTER TABLE `User`
ADD PRIMARY KEY (`UserID`),
ADD UNIQUE KEY `Username` (`Username`),
ADD UNIQUE KEY `Email` (`Email`);
ALTER TABLE `User`
 MODIFY `UserID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
CREATE TABLE `Address` (
 `AddressID` int(11) NOT NULL,
 `UserID` int(11) DEFAULT NULL,
 `Street` varchar(255) DEFAULT NULL,
 `City` varchar(100) DEFAULT NULL,
 `State` varchar(100) DEFAULT NULL,
 `PostalCode` varchar(20) DEFAULT NULL,
 `Country` varchar(100) DEFAULT NULL,
 `IsDefault` tinyint(1) NOT NULL DEFAULT 0,
 `AddressType` enum('Shipping','Billing','Other') DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
ALTER TABLE `Address`
ADD PRIMARY KEY (`AddressID`),
ADD KEY `fk user address` (`UserID`);
ALTER TABLE `Address`
ADD CONSTRAINT `fk_user_address` FOREIGN KEY (`UserID`) REFERENCES `User`
(`UserID`);
```

```
MODIFY `AddressID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
CREATE TABLE `Product` (
 `ProductID` int(11) NOT NULL,
 `Name` varchar(75) DEFAULT NULL,
 `Description` text DEFAULT NULL,
 `Price` decimal(10,2) DEFAULT NULL,
 `StockQuantity` int(11) DEFAULT NULL,
 `BrandID` int(11) DEFAULT NULL,
 `CategoryID` int(11) DEFAULT NULL,
 `ImageURL` varchar(225) DEFAULT NULL,
 `SKU` varchar(255) NOT NULL,
 `Weight` decimal(5,2) DEFAULT NULL,
 `Dimensions` varchar(225) DEFAULT NULL,
 `IsActive` tinyint(1) NOT NULL DEFAULT 1
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
ALTER TABLE `Product`
ADD PRIMARY KEY (`ProductID`),
ADD UNIQUE KEY `SKU` (`SKU`),
ADD KEY `BrandID` (`BrandID`),
ADD KEY `CategoryID` (`CategoryID`);
ALTER TABLE `Product`
ADD CONSTRAINT `product_ibfk_1` FOREIGN KEY (`BrandID`) REFERENCES `Brand`
(`BrandID`),
ADD CONSTRAINT `product_ibfk_2` FOREIGN KEY (`CategoryID`) REFERENCES
`Category` (`CategoryID`);
ALTER TABLE `Product`
MODIFY `ProductID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=13;
CREATE TABLE `Brand` (
 `BrandID` int(11) NOT NULL,
 `Name` varchar(75) NOT NULL,
 `Description` text DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
```

ALTER TABLE `Address`

```
ALTER TABLE `Brand`
ADD PRIMARY KEY (`BrandID`);
ALTER TABLE `Brand`
MODIFY `BrandID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
CREATE TABLE `Category` (
 `CategoryID` int(11) NOT NULL,
 `Name` varchar(75) DEFAULT NULL,
 `Description` text DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
ALTER TABLE `Category`
ADD PRIMARY KEY (`CategoryID`);
ALTER TABLE `Category`
MODIFY `CategoryID` int(11) NOT NULL AUTO INCREMENT, AUTO INCREMENT=7;
CREATE TABLE `Order` (
 `OrderID` int(11) NOT NULL,
 `UserID` int(11) DEFAULT NULL,
 `OrderDate` date NOT NULL,
 `TotalAmount` decimal(10,2) NOT NULL,
 `OrderStatusID` int(11) DEFAULT NULL,
 `PaymentConfirmedDate` date DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
ALTER TABLE `Order`
ADD PRIMARY KEY (`OrderID`),
ADD KEY `fk order user` (`UserID`),
ADD KEY `fk_order_orderstatus` (`OrderStatusID`);
ALTER TABLE `Order`
ADD CONSTRAINT `fk_order_user` FOREIGN KEY (`UserID`) REFERENCES `User`
(`UserID`),
ADD CONSTRAINT `fk order orderstatus` FOREIGN KEY (`OrderStatusID`)
REFERENCES `OrderStatus` (`OrderStatusID`);
ALTER TABLE `Order`
```

```
CREATE TABLE `OrderItem` (
 `OrderID` int(11) NOT NULL,
 `ProductID` int(11) NOT NULL,
 `Quantity` int(11) NOT NULL,
 `Subtotal` decimal(10,2) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4 danish ci;
ALTER TABLE `OrderItem`
ADD PRIMARY KEY (`OrderID`, `ProductID`),
ADD KEY `fk orderitem product` (`ProductID`);
ALTER TABLE `OrderItem`
ADD CONSTRAINT `fk orderitem order` FOREIGN KEY (`OrderID`) REFERENCES
`Order` (`OrderID`),
ADD CONSTRAINT `fk orderitem product` FOREIGN KEY (`ProductID`) REFERENCES
`Product` (`ProductID`);
CREATE TABLE `OrderStatus` (
 `OrderStatusID` int(11) NOT NULL,
 `StatusName` varchar(255) NOT NULL,
 `Description` text DEFAULT NULL,
 `CreatedAt` datetime DEFAULT current_timestamp(),
 `UpdatedAt` datetime DEFAULT current_timestamp() ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
ALTER TABLE `OrderStatus`
ADD PRIMARY KEY (`OrderStatusID`);
ALTER TABLE `OrderStatus`
MODIFY `OrderStatusID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
CREATE TABLE `Payment` (
 `PaymentID` int(11) NOT NULL,
 `OrderID` int(11) DEFAULT NULL,
 `PaymentMethod` varchar(255) NOT NULL,
 `Amount` decimal(10,2) NOT NULL,
```

```
`PaymentDate` date NOT NULL,
 `PaymentStatusID` int(11) DEFAULT NULL,
 `TransactionID` varchar(225) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4 danish ci;
ALTER TABLE `Payment`
ADD PRIMARY KEY (`PaymentID`),
ADD KEY `fk payment order` (`OrderID`),
ADD KEY `fk_payment_status` (`PaymentStatusID`);
ALTER TABLE `Payment`
ADD CONSTRAINT `fk_payment_order` FOREIGN KEY (`OrderID`) REFERENCES `Order`
(`OrderID`),
ADD CONSTRAINT `fk payment status` FOREIGN KEY (`PaymentStatusID`)
REFERENCES `PaymentStatus` (`PaymentStatusID`);
ALTER TABLE `Payment`
MODIFY `PaymentID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
CREATE TABLE `PaymentStatus` (
 `PaymentStatusID` int(11) NOT NULL,
 `StatusName` varchar(75) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4 danish ci;
ALTER TABLE `PaymentStatus`
ADD PRIMARY KEY (`PaymentStatusID`);
ALTER TABLE `PaymentStatus`
MODIFY `PaymentStatusID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
CREATE TABLE `ShippingDetail` (
 ShippingID`int(11) NOT NULL,
 `OrderID` int(11) DEFAULT NULL,
 `RecipientName` varchar(255) DEFAULT NULL,
 `AddressID` int(11) DEFAULT NULL,
 `ShippingMethod` varchar(100) DEFAULT NULL,
 `ShippingCost` decimal(10,2) NOT NULL,
 `ExpectedDeliveryDate` date DEFAULT NULL,
 `TrackingNumber` varchar(255) DEFAULT NULL,
 `IsDelivered` tinyint(1) NOT NULL DEFAULT 0,
```

```
`DeliveryDate` date DEFAULT NULL,
 `BaseCost` decimal(10,2) DEFAULT NULL,
 `WeightSurcharge` decimal(10,2) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4 danish ci;
ALTER TABLE `ShippingDetail`
ADD PRIMARY KEY (`ShippingID`),
ADD KEY `fk shipping order` (`OrderID`),
ADD KEY `fk_shipping_address` (`AddressID`);
ALTER TABLE `ShippingDetail`
ADD CONSTRAINT `fk_shipping_order` FOREIGN KEY (`OrderID`) REFERENCES `Order`
(`OrderID`),
ADD CONSTRAINT `fk shipping address` FOREIGN KEY (`AddressID`) REFERENCES
`Address` (`AddressID`);
ALTER TABLE `ShippingDetail`
MODIFY `ShippingID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
CREATE TABLE `Taxes` (
 `TaxID` int(11) NOT NULL,
 `Description` text DEFAULT NULL,
 `TaxPercent` decimal(5,2) DEFAULT NULL,
 `ApplicableToCategoryID` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;
ALTER TABLE `Taxes`
ADD PRIMARY KEY (`TaxID`),
ADD KEY `ApplicableToCategoryID` (`ApplicableToCategoryID`);
ALTER TABLE `Taxes`
ADD CONSTRAINT `taxes_ibfk_1` FOREIGN KEY (`ApplicableToCategoryID`)
REFERENCES `Category` (`CategoryID`);
ALTER TABLE `Taxes`
MODIFY `TaxID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
CREATE TABLE `Wishlist` (
 `WishlistID` int(11) NOT NULL,
 `UserID` int(11) NOT NULL,
```

```
`ProductID` int(11) NOT NULL,
   `AddedDate` date DEFAULT NULL,
   `Name` varchar(75) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_danish_ci;

ALTER TABLE `Wishlist`
   ADD PRIMARY KEY (`WishlistID`,`UserID`,`ProductID`),
   ADD KEY `fk_wishlist_user` (`UserID`),
   ADD KEY `fk_wishlist_product` (`ProductID`);

ALTER TABLE `Wishlist`
   ADD CONSTRAINT `fk_wishlist_product` FOREIGN KEY (`ProductID`) REFERENCES `Product` (`ProductID`),
   ADD CONSTRAINT `fk_wishlist_user` FOREIGN KEY (`UserID`) REFERENCES `User` (`UserID`);
```

MODIFY `WishlistID` int(11) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=3;

ALTER TABLE `Wishlist`