

A: Database DDL

DDL:

```
CREATE TABLE `tblaccounts` (  
  `AccountID` int(11) NOT NULL AUTO_INCREMENT,  
  `Email` varchar(45) NOT NULL,  
  `Username` varchar(45) NOT NULL,  
  PRIMARY KEY (`AccountID`)  
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8
```

```
CREATE TABLE `tblissues` (  
  `IssueID` int(11) NOT NULL AUTO_INCREMENT,  
  `SeriesID` int(11) NOT NULL,  
  `IssueNumber` int(11) NOT NULL,  
  `Price` float NOT NULL,  
  `ReleaseDate` date NOT NULL,  
  `Image` varchar(100) DEFAULT NULL,  
  PRIMARY KEY (`IssueID`),  
  KEY `fk_tblIssues_tblSeries1_idx` (`SeriesID`),  
  CONSTRAINT `fk_tblIssues_tblSeries1` FOREIGN KEY (`SeriesID`) REFERENCES `tblseries` (`SeriesID`)  
  ON DELETE NO ACTION ON UPDATE NO ACTION  
) ENGINE=InnoDB AUTO_INCREMENT=22 DEFAULT CHARSET=utf8
```

```
CREATE TABLE `tbllistissues` (  
  `ListIssueID` int(11) NOT NULL AUTO_INCREMENT,  
  `IssueID` int(11) NOT NULL,  
  `ListID` int(11) NOT NULL,  
  `Stocked` tinyint(4) NOT NULL DEFAULT '0',  
  PRIMARY KEY (`ListIssueID`),  
  KEY `fk_tblListIssues_tblIssues1_idx` (`IssueID`),  
  KEY `fk_tblListIssues_tblLists1_idx` (`ListID`),  
  CONSTRAINT `fk_tblListIssues_tblIssues1` FOREIGN KEY (`IssueID`) REFERENCES `tblissues`  
  (`IssueID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
```

```
CONSTRAINT `fk_tblListIssues_tblLists1` FOREIGN KEY (`ListID`) REFERENCES `tbllists` (`ListID`) ON  
DELETE NO ACTION ON UPDATE NO ACTION
```

```
) ENGINE=InnoDB AUTO_INCREMENT=22 DEFAULT CHARSET=utf8
```

```
CREATE TABLE `tbllists` (
```

```
  `ListID` int(11) NOT NULL AUTO_INCREMENT,
```

```
  `AccountID` int(11) NOT NULL,
```

```
  `EmailSent` tinyint(4) NOT NULL DEFAULT '0',
```

```
  PRIMARY KEY (`ListID`),
```

```
  KEY `fk_tblLists_tblAccounts1_idx` (`AccountID`),
```

```
  CONSTRAINT `fk_tblLists_tblAccounts1` FOREIGN KEY (`AccountID`) REFERENCES `tblaccounts`  
  (`AccountID`) ON DELETE NO ACTION ON UPDATE NO ACTION
```

```
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=utf8
```

```
CREATE TABLE `tblpublisher` (
```

```
  `PublisherID` int(11) NOT NULL AUTO_INCREMENT,
```

```
  `Name` varchar(45) NOT NULL,
```

```
  PRIMARY KEY (`PublisherID`)
```

```
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=utf8
```

```
CREATE TABLE `tblseries` (
```

```
  `SeriesID` int(11) NOT NULL AUTO_INCREMENT,
```

```
  `Name` varchar(45) NOT NULL,
```

```
  `Author` varchar(45) NOT NULL,
```

```
  `PublisherID` int(11) NOT NULL,
```

```
  PRIMARY KEY (`SeriesID`),
```

```
  KEY `fk_tblSeries_tblPublisher1_idx` (`PublisherID`),
```

```
  CONSTRAINT `fk_tblSeries_tblPublisher1` FOREIGN KEY (`PublisherID`) REFERENCES `tblpublisher`  
  (`PublisherID`) ON DELETE NO ACTION ON UPDATE NO ACTION
```

```
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8
```

```
CREATE TABLE `tblstock` (
```

```
`StockID` int(11) NOT NULL AUTO_INCREMENT,  
`StockNumber` int(11) NOT NULL,  
`IssueID` int(11) NOT NULL,  
PRIMARY KEY (`StockID`),  
KEY `fk_tblStock_tblIssues_idx` (`IssueID`),  
CONSTRAINT `fk_tblStock_tblIssues` FOREIGN KEY (`IssueID`) REFERENCES `tblissues` (`IssueID`) ON  
DELETE NO ACTION ON UPDATE NO ACTION  
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8
```