* **Media**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 | x |  | id | Integer | Yes | ID, auto increment |
| 2 |  |  | category | VARCHAR(45) | Yes | Media type, e.g., CD, DVD |
| 3 |  |  | price | Integer | Yes | Current price |
| 4 |  |  | quantity | Integer | Yes | Number of products |
| 5 |  |  | title | VARCHAR(45) | Yes | Product name |
| 6 |  |  | value | Integer | Yes | Value of the product |
| 7 |  |  | imageUrl | VARCHAR(45) | Yes | Product image path |
| 8 |  |  | isRushDelivery | BOOLEAN | Yes | Is Rush Media |

* **CD**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 |  | x | id | Integer | Yes | ID, same as ID of Media of  which type is CD |
| 2 |  |  | artist | VARCHAR(45) | Yes | Artist's name |
| 3 |  |  | recordLabel | VARCHAR(45) | Yes | Record label |
| 4 |  |  | musicType | VARCHAR(45) | Yes | Music genres |
| 5 |  |  | releasedDate | DATE | No | Release date |

* **BOOK**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 |  | x | id | Integer | Yes | ID, same as ID of Media of  which type is Book |
| 2 |  |  | author | VARCHAR(45) | Yes | Author |
| 3 |  |  | coverType | VARCHAR(45) | Yes | Cover type |
| 4 |  |  | Publisher | VARCHAR(45) | Yes | Publishing house |
| 5 |  |  | publishDate | DATETIME | Yes | Date of publishing |
| 6 |  |  | numOfPages | Integer | Yes | Page number |
| 7 |  |  | language | VARCHAR(45) | Yes | Language |
| 8 |  |  | bookCategory | VARCHAR(45) | Yes | Book category |

* **DVD**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 |  | x | id | Integer | Yes | ID, same as ID of Media of  which type is DVD |
| 2 |  |  | discType | VARCHAR(45) | Yes | Disc type |
| 3 |  |  | director | VARCHAR(45) | Yes | director |
| 4 |  |  | releasedDate | DATETIME | Yes | Release date |
| 5 |  |  | runtime | Integer | Yes | Duration |
| 6 |  |  | studio | VARCHAR(45) | Yes | Manufacturer |
| 7 |  |  | subtitle | VARCHAR(45) | Yes | Subtitles |
| 8 |  |  | filmType | VARCHAR(45) | Yes | Genres |

* **Card**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 | x |  | id | Integer | Yes | ID, auto increment |
| 2 |  |  | cardCode | VARCHAR(45) | Yes | Card code |
| 3 |  |  | owner | VARCHAR(45) | Yes | Cardholders |
| 4 |  |  | cvvCode | VARCHAR(45) | Yes | CVV code |
| 5 |  |  | dateExpired | VARCHAR(45) | Yes | Expiration date |
| 6 |  |  | issusingBank | VARCHAR(45) | Yes | Name of Bank |

* **DeliveryInfo**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 | x |  | id | Integer | Yes | ID, auto increment |
| 2 |  |  | name | VARCHAR(45) | Yes | Receiver name |
| 3 |  |  | province | VARCHAR(45) | Yes | Provinces |
| 4 |  |  | instructions | VARCHAR(200) | Yes | Delivery instructions |
| 5 |  |  | address | VARCHAR(100) | Yes | Delivery address |
| 6 |  |  | email | VARCHAR(45) | Yes | Email |
| 7 |  |  | phoneNumber | VARCHAR(45) | Yes | phoneNumber Receiver |

* **Order**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 | x |  | id | Integer | Yes | ID, auto increment |
| 2 |  |  | shippingFees | VARCHAR(45) | Yes | Shipping fee |
| 3 |  | x | deliveryInfoId | Integer | Yes | Delivery Info ID |

* **OrderMedia**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 |  | x | mediaID | Integer | Yes | Media ID |
| 2 |  | x | orderID | Integer | Yes | orderID |
| 3 |  |  | price | Integer | Yes | Selling price |
| 4 |  |  | quantity | Integer | Yes | Number |

* **Invoice**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 | x |  | id | Integer | Yes | ID, auto increment |
| 2 |  |  | totalAmount | Integer | Yes | totalAmount |
| 3 |  | x | orderId | Integer | Yes | orderId |

* **PaymentTransaction**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 | x |  | id | Integer | Yes | ID, auto increment |
| 2 |  |  | createAt | DATETIME | Yes | Date of creation |
| 3 |  |  | content | VARCHAR(45) | Yes | Transaction contents |
| 4 |  |  | method | VARCHAR(45) | Yes | Payment methods |
| 5 |  | x | cardId | Integer | Yes | ID of used card |
| 6 |  | x | invoiceId | Integer | Yes | Invoice ID |

* **RushDeliveryInfo**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **PK** | **FK** | **Column Name** | **Data Type** | **Mandatory** | **Description** |
| 1 |  | x | id | Integer | Yes | ID, same as ID of DeliveryInfo |
| 2 |  |  | deliveryTime | VARCHAR(45) | Yes | Delivery Time |

* **Scrip**

BEGIN;

CREATE TABLE `aims`.`Media`(

`id` INTEGER PRIMARY KEY AUTO\_INCREMENT NOT NULL,

`category` VARCHAR(45) NOT NULL,

`price` INTEGER NOT NULL,

`quantity` INTEGER NOT NULL,

`title` VARCHAR(45) NOT NULL,

`value` INTEGER NOT NULL,

`imageUrl` VARCHAR(45) NOT NULL,

`isRushDelivery` BOOLEAN NOT NULL

);

CREATE TABLE `aims`.`CD`(

`id` INTEGER PRIMARY KEY NOT NULL,

`artist` VARCHAR(45) NOT NULL,

`recordLabel` VARCHAR(45) NOT NULL,

`musicType` VARCHAR(45) NOT NULL,

`releasedDate` DATE,

CONSTRAINT `fk\_CD\_Media1`

FOREIGN KEY(`id`)

REFERENCES `Media`(`id`)

);

CREATE TABLE `aims`.`Book`(

`id` INTEGER PRIMARY KEY NOT NULL,

`author` VARCHAR(45) NOT NULL,

`coverType` VARCHAR(45) NOT NULL,

`publisher` VARCHAR(45) NOT NULL,

`publishDate` DATETIME NOT NULL,

`numOfPages` INTEGER NOT NULL,

`language` VARCHAR(45) NOT NULL,

`bookCategory` VARCHAR(45) NOT NULL,

CONSTRAINT `fk\_Book\_Media1`

FOREIGN KEY(`id`)

REFERENCES `Media`(`id`)

);

CREATE TABLE `aims`.`DeleveryInfo`(

`id` INTEGER PRIMARY KEY AUTO\_INCREMENT NOT NULL,

`name` VARCHAR(45),

`province` VARCHAR(45),

`instructions` VARCHAR(200),

`address` VARCHAR(100),

`email` VARCHAR(100),

`phoneNumber` VARCHAR(100)

);

CREATE TABLE `aims`.`RushDeleveryInfo`(

`id` INTEGER PRIMARY KEY AUTO\_INCREMENT NOT NULL,

`deliveryTime` VARCHAR(200) NOT NULL,

CONSTRAINT `fk\_RushDeleveryInfo\_DeleveryInfo1`

FOREIGN KEY(`id`)

REFERENCES `DeleveryInfo`(`id`)

);

CREATE TABLE `aims`.`Card`(

`id` INTEGER PRIMARY KEY AUTO\_INCREMENT NOT NULL,

`cardCode` VARCHAR(15) NOT NULL,

`owner` VARCHAR(45) NOT NULL,

`cvvCode` VARCHAR(3) NOT NULL,

`issusingBank` VARCHAR(45) NOT NULL,

`dateExpired` VARCHAR(4) NOT NULL

);

CREATE TABLE `aims`.`DVD`(

`id` INTEGER PRIMARY KEY NOT NULL,

`discType` VARCHAR(45) NOT NULL,

`director` VARCHAR(45) NOT NULL,

`runtime` INTEGER NOT NULL,

`studio` VARCHAR(45) NOT NULL,

`subtitle` VARCHAR(45) NOT NULL,

`releasedDate` DATETIME,

CONSTRAINT `fk\_DVD\_Media1`

FOREIGN KEY(`id`)

REFERENCES `Media`(`id`)

);

CREATE TABLE `aims`.`Order`(

`id` INTEGER NOT NULL,

`shippingFees` VARCHAR(45),

`deleveryInfoId` INTEGER NOT NULL,

PRIMARY KEY(`id`,`deleveryInfoId`),

CONSTRAINT `fk\_Order\_DeleveryInfo1`

FOREIGN KEY(`deleveryInfoId`)

REFERENCES `DeleveryInfo`(`id`)

);

CREATE INDEX `Order.fk\_Order\_DeleveryInfo1\_idx` ON `Order`

(`deleveryInfoId`);

CREATE TABLE `aims`.`OrderMedia`(

`orderID` INTEGER NOT NULL,

`price` INTEGER NOT NULL,

`quantity` INTEGER NOT NULL,

`mediaId` INTEGER NOT NULL,

PRIMARY KEY(`orderID`,`mediaId`),

CONSTRAINT `fk\_ordermedia\_order`

FOREIGN KEY(`orderID`)

REFERENCES `Order`(`id`),

CONSTRAINT `fk\_OrderMedia\_Media1`

FOREIGN KEY(`mediaId`)

REFERENCES `Media`(`id`)

);

CREATE INDEX `OrderMedia.fk\_ordermedia\_order\_idx` ON `OrderMedia`

(`orderID`);

CREATE INDEX `OrderMedia.fk\_OrderMedia\_Media1\_idx` ON `OrderMedia`

(`mediaId`);

CREATE TABLE `aims`.`Invoice`(

`id` INTEGER PRIMARY KEY NOT NULL,

`totalAmount` INTEGER NOT NULL,

`orderId` INTEGER NOT NULL,

CONSTRAINT `fk\_Invoice\_Order1`

FOREIGN KEY(`orderId`)

REFERENCES `Order`(`id`)

);

CREATE INDEX `Invoice.fk\_Invoice\_Order1\_idx` ON `Invoice`

(`orderId`);

CREATE TABLE `aims`.`PaymentTransaction`(

`id` INTEGER NOT NULL,

`createAt` DATETIME NOT NULL,

`content` VARCHAR(45) NOT NULL,

`method` VARCHAR(45),

`cardId` INTEGER NOT NULL,

`invoiceId` INTEGER NOT NULL,

PRIMARY KEY(`id`,`cardId`,`invoiceId`),

CONSTRAINT `fk\_PaymentTransaction\_Card1`

FOREIGN KEY(`cardId`)

REFERENCES `Card`(`id`),

CONSTRAINT `fk\_PaymentTransaction\_Invoice1`

FOREIGN KEY(`invoiceId`)

REFERENCES `Invoice`(`id`)

);

CREATE INDEX `PaymentTransaction.fk\_PaymentTransaction\_Card1\_idx` ON

`PaymentTransaction` (`cardId`);

CREATE INDEX `PaymentTransaction.fk\_PaymentTransaction\_Invoice1\_idx`

ON `PaymentTransaction` (`invoiceId`);

COMMIT;