* **-Priniting\_House**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | PH\_id | Varchar2(3) | Printing House Id | Yes |  |  |
| **2** | Name | Varchar2(20) | Name of printing house |  |  |  |
| **3** | City | Varchar2(20) | City of printing house |  |  |  |
| **4** | Region | Varchar2(20) |  |  |  |  |
| **5** | Email | Varchar2(30) | Email of printing house |  |  |  |

* **-Priniting\_House\_Phone**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Phone | Varchar2(11) | Printing house phone | Yes |  |  |
| **2** | PH\_id | Varchar2(3) | Printing House Id | Yes | Yes | Priniting\_House |

* **-Paper\_Type**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | PH\_id | Varchar2(3) | Printing House Id | Yes | Yes | Priniting\_House |
| **2** | Type | Varchar2(20) | Type of Paper | Yes |  |  |
| **3** | Cost | Number(8,2) | Cost of paper |  |  |  |

* **-Book\_Outlets\_Phone**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Phone | Varchar2(11) | Book outlet phone | Yes |  |  |
| **2** | BO\_id | Varchar2(3) | Book outlet Id | Yes | Yes | Book\_Outlets |

* **-Book\_Outlet**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | BO\_id | Varchar2(3) | Book outlet Id | Yes |  |  |
| **2** | Email | Varchar2(30) | Book outlet Email |  |  |  |
| **3** | City | Varchar2(20) | City of book outlet |  |  |  |
| **4** | Region | Varchar2(20) |  |  |  |  |
| **5** | Name | Varchar2(20) | Name of book outlet |  |  |  |

* **-Distributor**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Distributer\_id | Varchar2(3) | Distributer\_id | Yes |  |  |
| **2** | Name | Varchar2(20) | Name of Distributor |  |  |  |
| **3** | City | Varchar2(20) | City of Distributor |  |  |  |
| **4** | Region | Varchar2(20) | Region of  Distributor |  |  |  |

* **-Distributor\_Phone**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Phone | Varchar2(11) | Distributer phone | Yes |  |  |
| **2** | Distributer\_id | Varchar2(3) | Distributer\_id | Yes | Yes | Distributor |

* **-Eddition**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Ed\_Number | Varchar2(1) | Eddition number | Yes |  |  |
| **2** | Ed\_copies | Number(6) | Eddition copies |  |  |  |
| **3** | Price\_For\_Copy | Number(8,2) | Price for copy |  |  |  |
| **4** | Publishing\_Data | Varchar2(20) |  |  |  |  |
| **5** | Ed\_Pages | Number(4) | Eddition Pages |  |  |  |
| **6** | Paper\_Type | Varchar2(20) | ???????????? |  |  |  |
| **7** | Book\_id | Varchar2(20) |  |  | Yes | Book |
| **8** | PH\_id | Varchar2(3) | Printing House Id |  | Yes | Printing\_House |

* **Employee\_Phone**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Phone | Varchar2(11) | Empolyee phone | Yes |  |  |
| **2** | Emp\_id | Varchar2(3) | Empolyee Id | Yes | Yes | Empolyee |

* **Employee**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Emp\_id | Varchar2(3) | Empolyee Id | Yes |  |  |
| **2** | First\_name | Varchar2(20) | Empolyee First Name |  |  |  |
| **3** | Last\_name | Varchar2(20) | Empolyee Last Name |  |  |  |
| **4** | Email | Varchar2(30) | Email of Empolyee |  |  |  |
| **5** | City | Varchar2(20) |  |  |  |  |
| **6** | Region | Varchar2(20) |  |  |  |  |
| **7** | Salary | Number(8,2) | Salary of Empolyee |  |  |  |
| **8** | Dept\_id | Varchar2(3) | Department Id |  | Yes | Department |
| **9** | Sup\_Emp\_id | Varchar2(3) | ???????????? |  | Yes | ???????????? |

* **-Order**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Order\_id | Varchar2(10) | Order id | Yes |  |  |
| **2** | Order\_Date | Date |  |  |  |  |
| **3** | Dept\_id | Varchar2(3) | Department Id |  | Yes | Department |
| **4** | BO\_id | Varchar2(3) | Book Id |  | Yes | Book |
| **5** | Distributer\_id | Varchar2(3) | Distributer Id |  | Yes | Distributer |

* **Eddition\_Editor**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Ed\_Number | Varchar2(1) | Eddition Numper | Yes | Yes | Eddition |
| **2** | Emp\_id | Varchar2(3) | Empolyee Id | Yes | Yes | Empolyee |

* **Book\_Maker**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Book\_id | Varchar2(4) | Book Id | Yes | Yes | Book |
| **2** | Emp\_id | Varchar2(3) | Empolyee Id | Yes | Yes | Empolyee |

* **-Order\_Book**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Order-id | Varchar2(10) | Order Id | Yes | Yes | Order |
| **2** | Book\_id | Varchar2(4) | Book Id | Yes | Yes | Book |
| **3** | Copies\_No | Varchar2(5) | Number of copies |  |  |  |

* **-Department**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Dept\_id | Varchar2(3) | Department Id | Yes |  |  |
| **2** | name | Varchar2(20) | Name of Department |  |  |  |
| **3** | Manage\_id | Varchar2(3) | Manage of Department Id |  | Yes | Empolyee |

* **Book\_Category**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Category | Varchar2(20) | Category of Book | Yes |  |  |
| **2** | Book\_id | Varchar2(4) | Book Id | Yes | Yes | Book |

* **Book**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Book\_id | Varchar2(4) | Book id | Yes |  |  |
| **2** | Book\_Title | Varchar2(30) | Book Title |  |  |  |
| **3** | Contract\_id | Varchar2(3) | Contract id |  | Yes | Contract |

* **-Auther**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Auther\_id | Varchar2(3) | Auther id | Yes |  |  |
| **2** | First\_Name | Varchar2(20) | First Name of Auther |  |  |  |
| **3** | Last\_Name | Varchar2(20) | Last Name of Auther |  |  |  |
| **4** | Email | Varchar2(30) | Email of Auther |  |  |  |
| **5** | City | Varchar2(20) | City of Auther |  |  |  |
| **6** | Region | Varchar2(20) |  |  |  |  |

* **Contract**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Contract\_id | Varchar2(3) | Contract Id | Yes |  |  |
| **2** | Terms | Varchar2(20) |  |  |  |  |
| **3** | C\_Date | Date | Contract Date |  |  |  |
| **4** | Dept\_id | Varchar2(3) | Department Id |  | Yes | Department |
| **5** | Book\_id | Varchar2(4) | Book Id |  | Yes | Book |

* **Book\_Auther**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Book\_id | Varchar2(4) | Book id | Yes | Yes | Book |
| **2** | Auther\_id | Varchar2(3) | Auther id | Yes | Yes | Auther |

* **-Auther\_Phone**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Attribute**  **name** | **Data Type** | **Description** | **PK** | **FK** | **Refrence** |
| **1** | Phone | Varchar2(11) | Auther phone | Yes |  |  |
| **2** | Auther\_id | Varchar2(3) | Auther Id | Yes | Yes | Auther |