1. **Data Dictionary for USER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | username | VARCHAR2 | 50 | It is a unique way of identifying every user. |
|  | email\_address | VARCHAR2 | 100 | Address associated with a user. |
|  | D.O.B | DATE |  | Date of birth of the user. |
| Not Null | password | VARCHAR2 | 20 | Password typed in by the user. |
|  | description | VARCHAR2 | 255 | About section of the user. Can be null. |

1. **Data Dictionary for USER\_PHN\_NO**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | username | VARCHAR2 | 50 |  |
| Not Null  Composite Key | phone\_no | VARCHAR2 | 100 | Phone number associated with the user. |

1. **Data Dictionary for CUSTOMER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key  Foreign Key | username | VARCHAR2 | 50 |  |
| Not Null | street | VARCHAR2 | 100 | Address. |
| Not Null | city | VARCHAR2 | 100 | Address. |
| Not Null | state | VARCHAR2 | 100 | Address. |
|  | first\_name | VARCHAR2 | 50 | Name of the user. |
|  | last\_name | VARCHAR2 | 50 | Name of the user. |

1. **Data Dictionary for ADMINISTRATOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key  Foreign Key | username | VARCHAR2 | 50 |  |

1. **Data Dictionary for ORDERS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | order\_id | NUMBER | 10, 0 | Unique ID for each order. |
| Not Null  Unique | invoice\_no | NUMBER | 10, 0 | Unique ID between client and the seller. |
| Not Null | order\_date | TIMESTAMP |  | Date issued for the order. |
| Not Null | order\_status | VARCHAR2 | 100 | Delivered or not. |
| Not Null  Foreign Key | username | VARCHAR2 | 50 |  |

1. **Data Dictionary for TRACKING\_DETAILS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key | tracking\_id | NUMBER | 10, 0 | Unique ID for tracking. |
| Not Null  Composite Key  Foreign Key | order\_id | NUMBER | 10, 0 |  |
| Not Null | courier\_name | VARCHAR2 | 100 | Name of the deliverer, for contact. |
| Not Null | update\_time | TIMESTAMP |  | Time updated. |
| Not Null | description | VARCHAR2 | 100 | Cannot be null. |

1. **Data Dictionary for ORDER\_DETAILS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Unique | order\_details\_id | NUMBER | 10, 0 | Unique ID for details. |
| Not Null  Composite Key  Foreign Key | order\_id | NUMBER | 10, 0 |  |
| Not Null | discount | DECIMAL | 5, 2 | Discount, can be between 0 and 100. |
| Not Null | amount\_to\_pay | NUMBER | 10, 3 | Amount to be paid |

1. **Data Dictionary for BOOK\_INSTANCE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key | copy\_instance | NUMBER | 10, 0 | Copy instance of the book. |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 | Unique ID for each book. |
| Not Null | quantity | NUMBER | 5, 0 | Quantity in each order. |
| Not Null  Foreign Key | order\_details\_id | NUMBER | 10, 0 |  |
| Not Null  Foreign Key | order\_id | NUMBER | 10, 0 |  |

1. **Data Dictionary for AUTHOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | author\_id | NUMBER | 10, 0 | Unique ID for each author. |
| Not Null | author\_name | VARCHAR2 | 50 | Name of the author. |
| Not Null | email\_address | VARCHAR2 | 100 | Email address of the author |

1. **Data Dictionary for CATEGORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | category\_id | NUMBER | 10, 0 | ID of the category. |
| Not Null | category\_name | VARCHAR2 | 50 | Name of the category. |
| Foreign Key | parent\_id | NUMBER | 10, 0 | Subgenre. |

1. **Data Dictionary for LANGUAGE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | language\_id | NUMBER | 10, 0 | ID of the language. |
| Not Null | language\_name | VARCHAR2 | 50 | Name of the language. |
|  | description | VARCHAR2 | 255 | Can be NULL. |

1. **Data Dictionary for BINDING**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | binding\_id | NUMBER | 10, 0 | ID of the binding. |
| Not Null | binding\_type | VARCHAR2 | 50 | Name of the binding. |
|  | description | VARCHAR2 | 255 |  |

1. **Data Dictionary for BOOK\_CATEGORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | category\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |

1. **Data Dictionary for BOOK\_LANGUAGE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | language\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |

1. **Data Dictionary for BOOK\_BINDING**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | binding\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |

1. **Data Dictionary for BOOK**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | book\_ISBN | NUMBER | 10, 0 |  |
|  | book\_title | VARCHAR2 | 255 | Title of the book. |
|  | edition | NUMBER | 2, 0 | Edition number. |
| Not Null | price | NUMBER | 7, 3 | Price of the book. |
|  | E.O.Q | NUMBER | 7, 3 | EOQ |
| Not Null  Foreign Key | author\_id | NUMBER | 10, 0 |  |
| Not Null  Foreign Key | publisher\_id | NUMBER | 10, 0 |  |
|  | release\_date | DATE |  |  |
|  | page\_count | NUMBER | 4, 0 |  |
|  | dimensions | VARCHAR2 | 50 |  |
| Not Null | quantity\_in\_stock | NUMBER | 6, 0 |  |

1. **Data Dictionary for PUBLISHER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | publisher\_id | NUMBER | 10, 0 | Publisher ID |
| Not Null | publisher\_name | VARCHAR2 | 100 |  |
| Not Null | email\_address | VARCHAR2 | 100 |  |
| Not Null | website | VARCHAR2 | 100 |  |

1. **Data Dictionary for SUPPLIES\_TO**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | publisher\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | supplier\_id | NUMBER | 10, 0 | Supplier ID. |
| Not Null  Unique | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null | amount | NUMBER | 6, 0 |  |

1. **Data Dictionary for SUPPLIER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | supplier\_id | NUMBER | 10, 0 |  |
| Not Null | email\_address | VARCHAR2 | 100 | Email of the supplier. |
| Not Null | supplier\_name | VARCHAR2 | 100 |  |
| Not Null | contact\_no | VARCHAR2 | 100 | Contact number. |
| Not Null | street | VARCHAR2 | 100 |  |
| Not Null | city | VARCHAR2 | 100 |  |
| Not Null | state | VARCHAR2 | 100 |  |

1. **Data Dictionary for PROVIDES\_BOOKS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | supplier\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | warehouse\_id | NUMBER | 10, 0 |  |
| Not Null  Unique | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null | amount | NUMBER | 6, 0 | Amount of books. |

1. **Data Dictionary for WAREHOUSE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | warehouse\_id | NUMBER | 10, 0 |  |
| Not Null | warehouse\_name | VARCHAR2 | 100 |  |
| Not Null | street | VARCHAR2 | 100 |  |
| Not Null | city | VARCHAR2 | 100 |  |
| Not Null | state | VARCHAR2 | 100 |  |
| Not Null | manager\_contact | VARCHAR2 | 100 |  |

1. **Data Dictionary for HAVE\_BOOKS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | supplier\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | track\_id | NUMBER | 10, 0 |  |

1. **Data Dictionary for BOOKS\_WITH\_SUPPLIERS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | track\_id | NUMBER | 10, 0 |  |
| Not Null  Unique | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null | quantity | NUMBER | 6, 0 |  |

1. **Data Dictionary for CONTAINS\_BOOKS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | warehouse\_id | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | track\_id | NUMBER | 10, 0 |  |

1. **Data Dictionary for BOOKS\_IN\_WAREHOUSE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | track\_id | NUMBER | 10, 0 |  |
| Not Null  Unique | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null | quantity | NUMBER | 6, 0 |  |

1. **Data Dictionary for USER\_INTERACTION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | username | VARCHAR2 | 50 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |
|  | rating | NUMBER | 1, 0 |  |
|  | upvote | CHAR | 1 |  |
|  | downvote | CHAR | 1 |  |

1. **Data Dictionary for FAVOURITES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | favourite\_id | NUMBER | 10, 0 |  |
|  | reason | VARCHAR2 | 255 |  |

1. **Data Dictionary for USER\_FAVOURITE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | username | VARCHAR2 | 50 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | favourite\_id | NUMBER | 10, 0 |  |

1. **Data Dictionary for COMMENTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | comment\_id | NUMBER | 10, 0 |  |
| Not Null | comment | VARCHAR2 | 255 |  |

1. **Data Dictionary for USER\_COMMENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | username | VARCHAR2 | 50 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | comment\_id | NUMBER | 10, 0 |  |

1. **Data Dictionary for WISHLIST**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Primary Key | wish\_id | NUMBER | 10, 0 |  |

1. **Data Dictionary for USER\_WISHLIST**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Status | Attribute | Data type | Size | Description |
| Not Null  Composite Key  Foreign Key | username | VARCHAR2 | 50 |  |
| Not Null  Composite Key  Foreign Key | book\_ISBN | NUMBER | 10, 0 |  |
| Not Null  Composite Key  Foreign Key | wish\_id | NUMBER | 10, 0 |  |