**Represent all entities and relationships in a tabular fashion (Relational Model)**

**BUS:**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **CONSTRAINT** |
| Bus No | Varchar2(10) | **Primary Key** |
| Source | Varchar2(20) | Not Null |
| Destination | Varchar2(20) | Not Null |
| Couch Type | Varchar2(20) |  |

**Ticket:**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **CONSTRAINT** |
| Ticket No | number (9) | **Primary Key** |
| Journey Date | Date | Not Null |
| Age | Int(4) |  |
| Sex | Char(10) | Not Null |
| Source | Varchar2(10) | Not Null |
| Destination | Varchar2(10) | Not Null |
| Dep-time | Varchar2(10) | Not Null |

**Passenger:**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **CONSTRAINT** |
| PPNo | Varchar2(20) | **Primary Key** |
| Name | Varchar2(20) | Not Null |
| Age | Integer(4) |  |
| Sex | Char(10) | Not Null, Male/female |
| Address | Varchar2(30) |  |

**Reservation:**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **CONSTRAINT** |
| PNRNo | number(9) | **Foreign Key** |
| Joursney date | Date | Not Null |
| No-of-Seats | Integer(8) |  |
| Address | Varchar2(50) |  |
| Contact No | Number (9) | Should be equal to 10 numbers and not allow other than numeric |
| Status | Char (2) | **Y/N** |