**PRS Capstone Project Data Model**

**prs Database**

# **Table: User [1 create first]**

|  |  |
| --- | --- |
| **Field** | **Type** |
| ID | INT |
| UserName | VARCHAR(20) |
| Password | VARCHAR(10) |
| FirstName | VARCHAR(20) |
| LastName | VARCHAR(20) |
| PhoneNumber | VARCHAR(12) |
| Email | VARCHAR(75) |
| IsReviewer | TinyInt(1) |
| IsAdmin | TinyInt(1) |

# **Table: Request [3]**

|  |  |
| --- | --- |
| **Field** | **Type** |
| ID | INT |
| UserID | INT |
| Description | VARCHAR(100) |
| Justification | VARCHAR(255) |
| DateNeeded | DATE |
| DeliveryMode | VARCHAR(25) |
| Status | VARCHAR(20) |
| Total | DECIMAL(10,2) |
| SubmittedDate | DATETIME |
| ReasonForRejection | VARCHAR(100) - **NULLABLE** |

# **Table: LineItem [5]**

|  |  |
| --- | --- |
| **Field** | **Type** |
| ID | INT |
| RequestID | INT |
| ProductID | INT |
| Quantity | INT |

# **Table: Product [4]**

|  |  |
| --- | --- |
| **Field** | **Type** |
| ID | INT |
| VendorID | INT |
| PartNumber | VARCHAR(50) |
| Name | VARCHAR(150) |
| Price | DECIMAL(10,2) |
| Unit | VARCHAR(255) - **NULLABLE** |
| PhotoPath | VARCHAR(255) - **NULLABLE** |

# **Table: Vendor [2]**

|  |  |
| --- | --- |
| **Field** | **Type** |
| ID | INT |
| Code | VARCHAR(10) |
| Name | VARCHAR(255) |
| Address | VARCHAR(255) |
| City | VARCHAR(255) |
| State | VARCHAR(2) |
| Zip | VARCHAR(5) |
| PhoneNumber | VARCHAR(12) |
| Email | VARCHAR(100) |

# **Foreign Keys**

|  |  |  |  |
| --- | --- | --- | --- |
| **From Table** | **From Field** | **To Table** | **To Field** |
| request | UserID | user | ID |
| product | VendorID | vendor | ID |
| lineItem | ProductID | product | ID |
| lineItem | RequestID | request | ID |

# **Other Constraints**

|  |  |  |
| --- | --- | --- |
| **Table** | **Constraint Name** | **Unique Field(s)** |
| user | uname | Username |
| lineItem | req\_pdt | RequestID, ProductID |
| product | vendor\_part | VendorID, PartNumber |
| vendor | vcode | Code |

Notes

* All fields should be considered NOT NULL unless flagged as ‘Nullable’
* Constraint names are only applicable if defining a name i.e. in an alter statement