**Agent**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| agentID | VARCHAR(3) | agent ID | PK | AIS |
| agentName | VARCHAR(125) | agent name | NOT NULL | Albanian Int Shipping Agency |
| agentEmail | VARCHAR(50) | agent Email | NOT NULL | [arbagent@arbaship.com](mailto:arbagent@arbaship.com) |
| specialisation | VARCHAR(100) | specialisation | NOT NULL | Shipping Agency |

**Freight**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **freightID** | **VARCHAR(11)** | **Freight ID** | **PK** | **CMSU8357727** |
| **inListID** | **INT** | **inbound list ID** | **FK** | **5** |
| **arrivalTime** | **TIMESTAMP** | **arrival Time** | **NOT NULL** | **1/10/2022 3:12** |
| **areaID** | **VARCHAR(2)** | **area ID** |  | **A** |
| **locX** | **INT** | **horizontal position** |  | **6** |
| **locY** | **INT** | **vertical position** |  | **17** |
| **stackLvl** | **INT** | **stack level** |  | **5** |

**Freighttype**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **freightTypeID** | **VARCHAR(4)** | **freight Type ID** | **PK** | **20G0** |
| **freightTypeName** | **VARCHAR(50)** | **freight Type Name** | **NOT NULL** | **General Purpose Container** |
| **freightHeight** | **FLOAT** | **freight Height** |  | **2438** |
| **freightLength** | **FLOAT** | **freight Length** |  | **3048** |
| **tareWeight** | **FLOAT** | **tare Weight** |  | **2080** |
| **maxGrossWeight** | **FLOAT** | **maximum Gross Weight** |  | **30500** |
| **maxNetWeight** | **FLOAT** | **maximum Net Weight** |  | **28300** |

**Historicalfreight**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **freightID** | **VARCHAR(11)** | **freight ID** | **PK1** | **CMSU7773080** |
| **arrivalTime** | **TIMESTAMP** | **arrival Time** | **PK2** | **2022-01-10 03:12:10** |
| **departureTime** | **TIMESTAMP** | **departure Time** | **PK3** | **2022-01-10 03:12:10** |
| **inListID** | **INT** | **inbound list ID** |  | **1** |
| **outListID** | **INT** | **outbound list ID** |  | **2** |

**List**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **listID** | **INT** | **list ID** | **PK, FK** | **1** |
| **freightID** | **VARCHAR(11)** | **freight ID** | **PK** | **CMSU7773080** |
| **freightTypeID** | **VARCHAR(4)** | **freight type ID** | **NOT NULL** | **1000** |
| **targetID** | **VARCHAR(20)** | **target ID** | **NOT NULL** | **20G0** |
| **freightDirection** | **BOOLEAN** | **freight Direction** | **NOT NULL** | **1** |
| **origin** | **VARCHAR(16)** | **country of origin** |  | **Lunarian** |

**Request**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **listID** | **INT** | **list ID** | **PK** | **1** |
| **agentID** | **VARCHAR(3)** | **agent ID** | **FK** | **CMS** |
| **documentID** | **VARCHAR(20)** | **document ID** | **NOT NULL** | **MY10059** |
| **approval** | **BOOLEAN** | **apporval** | **NOT NULL** | **1** |
| **direction** | **VARCHAR(5)** | **direction** | **NOT NULL** | **IN** |

**Targetinfo**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **targetID** | **INT** | **target ID** | **PK** | **1000** |
| **agentID** | **VARCHAR(3)** | **agent ID** | **FK** | **GSK** |
| **PICName** | **VARCHAR(50)** | **name of person in charge** |  | **Marisa Kirisame** |
| **vehicleID** | **VARCHAR(20)** | **vehicle ID** |  | **RSD105998** |
| **vehicleTypeID** | **INT** | **vehicle Type ID** | **FK** | **1** |

**Vehicleinfo**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATA TYPE** | **DESCRIPTION** | **CONSTRAINTS** | **EXAMPLE** |
| **vehicleTypeID** | **INT** | **vehicle Type ID** | **PK** | **9** |
| **vehicleName** | **VARCHAR(20)** | **vehicle Name** |  | **Freuhauf** |
| **vehicleMaxFreightCounts** | **INT** | **vehicle Maximum Freight Counts** |  | **13** |
| **vehicleCap** | **FLOAT** | **vehicle Capacity** |  | **40000** |
| **vehicleDescription** | **VARCHAR(100)** | **vehicle Description** |  | **Fantainer trailer. Carry dangerous liquid** |