**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 |