**Name: Ramasubbaiya**

**Student #: C0652863**

**Assignment: A12**

**Bluewater Trucking**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| CUSTOMERS | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | customer\_id | VARCHAR(10) |  |
|  | \* - Mandatory | customer\_name | VARCHAR(30) |  |
|  | \* - Mandatory | customer\_address | VARCHAR(100) |  |
|  | \* - Mandatory | customer\_city | VARCHAR(30) |  |
|  | \* - Mandatory | customer\_province | VARCHAR(30) |  |
|  | \* - Mandatory | customer\_postal\_code | NUMERIC(5,0) |  |
|  | \* - Mandatory | customer\_contact\_name | VARCHAR(30) |  |
|  | \* - Mandatory | customer\_phone\_number | NUMERIC(10,0) |  |
|  |  |  |  |  |
| DRIVERS | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | employee\_number | VARCHAR(10) |  |
|  | \* - Mandatory | driver\_last\_name | VARCHAR(30) |  |
|  | \* - Mandatory | driver\_first\_name | VARCHAR(30) |  |
|  |  |  |  |  |
| STAFF | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
|  | \* - Mandatory | date\_hired | VARCHAR(10) |  |
|  | \* - Mandatory | licence\_type | VARCHAR(30) |  |
|  | \* - Mandatory | licence\_number | NUMERIC(15,0) |  |
|  | \* - Mandatory | expiry\_date | DATE |  |
|  | \* - Mandatory | salary\_rate | NUMERIC(5,0) |  |
|  |  |  |  |  |
| CONTRACT | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
|  | \* - Mandatory | company\_name | VARCHAR(10) |  |
|  | \* - Mandatory | start\_date | DATE |  |
|  | \* - Mandatory | end\_date | DATE |  |
|  | \* - Mandatory | contract\_rate | NUMERIC(5,2) |  |
|  |  |  |  |  |
| COMPANIES | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | company\_id | VARCHAR(10) |  |
|  | \* - Mandatory | company\_name | VARCHAR(30) |  |
|  | \* - Mandatory | contact\_name | VARCHAR(30) |  |
|  | \* - Mandatory | phone\_number | NUMERIC(10,0) |  |
|  |  |  |  |  |
| SHIPMENTs | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | shipment\_number | VARCHAR(10) |  |
|  | \* - Mandatory | shipment\_weight | NUMERIC(10,0) |  |
|  | \* - Mandatory | shipment\_destination | VARCHAR(50) |  |
|  | \* - Mandatory | departure\_date | DATE |  |
|  | \* - Mandatory | arrival\_date | DATE |  |
|  | \* - Mandatory | shipment\_cost | NUMERIC(8,0) |  |
|  |  |  |  |  |
| SHIPMENT\_HISTORY | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | employee\_number | VARCHAR(10) |  |
|  | \* - Mandatory | date | DATE |  |
|  | \* - Mandatory | truck\_registration\_number | NUMERIC(10,0) |  |
|  | \* - Mandatory | hour\_worked | NUMERIC(5,2) |  |
|  |  |  |  |  |
|  |  |  |  |  |
| TRUCKS | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | truck\_registration\_number | VARCHAR(10) |  |
|  | \* - Mandatory | truck\_type | VARCHAR(30) |  |
|  | \* - Mandatory | load\_capacity | NUMERIC(10,2) |  |
|  |  |  |  |  |
|  |  |  |  |  |
| INSPECTION\_HISTORY | | | | |
| **Key Type** | **Optionality** | **Attributes** | **Data Type** | **Comments** |
| PK - PRIMARY KEY | \* - Mandatory | truck\_registration\_number | VARCHAR(10) |  |
|  |  |  |  |  |
| COMPANY\_TRUCKS | | | | |
| **Key Type** | **Optionality** | **Column Name** | **Data Type** | **Comments** |
|  | \* - Mandatory | date\_of\_purchase | DATE |  |
|  | \* - Mandatory | date\_of\_renewal | DATE |  |
|  |  |  |  |  |
|  |  |  |  |  |
| CONTRACT\_TRUCK | | | | |
| **Key Type** | **Optionality** | **Column Name** | **Data Type** | **Comments** |
|  | \* - Mandatory | safety\_certification\_number | VARCHAR(20) |  |