Logical Definition of Domains

Number

     Description: Integers greater than zero.

     Datatype: Integer

     Format: 1

Address

     Description: Valid addresses which include the street name and number, city, state, and zip code.

     Datatype: String of variable length

     Format: 1717 Ford Lane Missoula, MT 59808

First Name

     Description: First names of individuals.

     Datatype: String of variable length

     Format:

Last Name

     Description: Last names of individuals.

     Datatype: String of variable length

     Format:

USA Phone Number

     Description: Valid 10-digit phone numbers in the United States.

     Datatype: String of fixed length 10

     Format: (ddd)ddd-dddd

Email Address

     Description: Valid Email Addresses.

     Datatype: String of variable length

     Format: c…c@c…c.ccc

Date

Description: Dates with month, day, and year.

Datatype: Date

Format: YYYY-MM-DD

Time

Description: Time with hour, minute, and second.

Datatype: Time

Format: hh:mm:ss

Note

Description: Notes made by customers or employees.

Datatype: String of variable length

Format: Any

Current State

Description: The current state of some object. These are pending, rejected, and approved.

Datatype: String of variable length

Format: Approved, Rejected, Pending

Boolean

Description: A Boolean to indicate a specific attribute.

Datatype: Boolean

Format: True or False

Street Address

Description: Steet number and name of a valid address

Datatype: String of variable length

Format: 1717 Ford Lane

City

Description: City Name of a valid address

Datatype: String of variable length

Format: Missoula

USA State

> Description: State abbreviation of a valid address
>
> Datatype: String of fixed length 2
>
> Format: MT or cc

Zip Code

> Description: 5 digit zip code of a valid address.
>
> Datatype: String of fixed length 5
>
> Format: 59808 or ddddd

Name

> Description: Name of some thing
>
> Datatype: String of variable length
>
> Format: cccc..cccc

Price

> Description: Price of some object or service in US dollars
>
> Datatype: Decimal with two digits after the decimal point and a total precision of 14
>
> Format: dd.dd

Middle Initial

> Description: Middle Initial of a person
>
> Datatype: String of fixed length 1
>
> Format: c

Password

> Description: The password of someone for their account
>
> Datatype: String of variable length
>
> Format: cccc…cccc

VIN Number

> Description: VIN number of a vehicle
>
> Datatype: String of fixed length 17

Format: ccccccccccccc

License Plate Number

      Description: License Plate number of a vehicle

      Datatype: String of variable length

      Format: cccccc

Year

      Description: Year

      Datatype: Year

      Format: YYYY

Make

      Description: Make of vehicle

      Datatype: String of variable length

      Format: cccccc

Model

      Description: Model of a vehicle

      Datatype: String of variable length

      Format: cccccc

Day Number Week

      Description: Days from either 1 to 7

      Datatype: Integer

      Format: nn

Day Number Two Weeks

      Description: Days from either 1 to 14

      Datatype: Integer

      Format: nn

Domains of Attributes

Customer Relation:

dom(Customer_num) = Number

dom(Cust_billing_address) = Address

dom(Cust_first_name) = First Name

dom(Cust_last_name) = Last Name

dom(Cust_phone_num) = USA Phone Number

dom(Cust_email) = Email Address

Quote Relation:

dom(Quote_number) = Number

dom(Quote_number) = Number

dom(Quote_address) = Address

dom(Quote_state) = Current State

dom(Date_of_creation) = Date

dom(Start_available) = Date

dom(End_available) = Date

dom(Quote_employ_note) = Note

dom(Quote_cust_note) = Note

dom(Customer_num) = Number

Invoice Relation:

dom(Invoice_number) = Number

dom(Invoice_address) = Address

dom(Invoice_date) = Date

dom(Invoice_paid) = Boolean

dom(Customer_num) = Number

Job Relation:

dom(Job_number) = Number

dom(Job_date) = Date

dom(Job_Time) = Time

dom(Street_address) = Street Address

dom(City) = City

dom(State) = USA State

dom(Zip_code) = Zip Code

dom(Job_completed) = Boolean

dom(Job_employ_note) = Note

dom(Job_cust_note) = Note

dom(Customer_num) = Number

Service Relation:

dom(Service_name) = Name

Special Equipment Relation:

dom(Equip_num) = Number

dom(Equip_name) = Name

dom(Equip_quantity) = Number

dom(Equip_price) = Price

dom(Equip_note) = Note

Employee Relation:

dom(Employee_num) = Number

dom(Emp_first_name) = First Name

dom(Emp_mid_initial) = Middle Initial

dom(Emp_last_name) = Last Name

dom(Emp_address) = Address

dom(Emp_email) = Email Address

dom(Emp_phone_num) = USA Phone Number

dom(Emp_password) = Password

dom(Emp_manager) = Boolean

Assignment Relation:

dom(Assignment_num) = Number

dom(Date) = Date

Vehicle Relation:

dom(Vin_num) = Vin Number

dom(License_num) = License Plate Number

dom(Year) = Year

dom(Make) = Make

dom(Model) = Model

dom(Vehicle_note) = Note

Timeoff Relation:

dom(Employee_num) = Number

dom(Start_date) = Date

dom(End_date) = Date

dom(Approved) = Boolean

Day Aval Relation:

dom(Employee_num) = Number

dom(Day_num) = Day Number Week

TimeSheet Relation:

dom(Employee_num) = Number

dom(Start_date) = Date

dom(End_date) = Date

Day Worked Relation:

dom(Employee_num) = Number

dom(Start_date) = Date

dom(Day_num) = Day Number Two Weeks

Is Assigned Relation:

dom(Job_number) = Number

dom(Assignment_num) = Number

Quoted Relation:

dom(Quote_number) = Number

dom(Service_name) = Name

dom(Service_price) = Price

dom(Service_approved) = Current State

Preformed Relation:

dom(Invoice_number) = Number

dom(Service_name) = Name

dom(Service_price) = Price

Completes Relation:

dom(Job_number) = Number

dom(Service_name) = Name

dom(Service_price) = Price

Uses Relation:

dom(Job_number) = Number

dom(Equip_num) = Number

dom(Equip_amount) = Number

Takes Relation:

dom(Assignment_num) = Number

dom(Vin_num) = VIN Number

Works On Relation:

dom(Employee_num) = Number

dom(Assignment_num) = Number

Day Aval Start Relation:

dom(Employee_num) = Number

dom(Day_num) = Day Number Week

dom(Aval_start) = Time

Day Aval End Relation:

dom(Employee_num) = Number

dom(Day_num) = Day Number Week

dom(Aval_endt) = Time

Day Worked Start Relation:

dom(Employee_num) = Number

dom(Start_date) = Date

dom(Day_num) = Day Number Two Weeks

dom(Worked_start) = Time

Day Worked End Relation:

dom(Employee_num) = Number

dom(Start_date) = Date

dom(Day_num) = Day Number Two Weeks

dom(Worked_end) = Time