TABLE	Turtle								
GENERAL ELEMENTS									
Field Name	Turtle_ID	Turtle_Name	Adoption_Date	Weight	Size	Gender	Habitat_ID	Diet_ID	Species_Name
Label									
Spec Type	Unique	Unique	Unique	Unique	Unique	Unique	Replica	Replica	Replica
Source Spec									
Shared By							Habitat	Diet	Species
Alias(es)									
Description	A unique number used to identify each turtle with in the company. It is created during the turtles initial adoption to the company.	The phrase used to refer to each turtle.	A date value assigned to the turtle on the day of adoption.	The weight of each turtle in oz.	The width and height of each turtle in inches.	A binary choice that indicates the turtles gender.	Connects the turtle to the habtiat table provides the turtles habitat name, room, sq ft, and biome.	table provides the turtles Diet	Connects the turtle to the species table provides the turtle species name, adult size, adult weight, and adult color.
PHYSICAL ELEMENTS									
Data Type	INT	VARCHAR	DATETIME	DECIMAL	DECIMAL	ENUM	CHAR	INT	VARCHAR
Length	4	16	n/a	6	4	n/a	4	4	16
Decimal Places	n/a	n/a	n/a	2	2	n/a	n/a	n/a	n/a
Character Support									
Letters (A-Z)	No	Yes	No	No	No	Yes	No	No	Yes
Numbers (0-9)	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No
Keybd (,./\$#)	No	No	Yes	No	No	No	No	No	No
Special	No	No	No	No	No	No	No	No	No
Input Mask	n/a	n/a	YYYY-MM-DD HH:MM	n/a	n/a	n/a	n/a	n/a	n/a
Display Format	n/a	n/a	MM/DD/YY 12:00:00 AM	0000.00oz	000.00"	n/a	n/a	n/a	n/a
LOGICAL ELEMENTS									
Key Type	Primary	Non	Non	Non	Non	Non	Foreign	Foreign	Foreign
Key Structure	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple
Uniqueness	Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique
Null Support	No Nulls	No Nulls	No Nulls	Nulls Allowed	Nulls Allowed	Nulls Allowed	No Nulls	No Nulls	No Nulls
Values Entered By	System	User	User	User	User	User	User	User	User
Required Value	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Default Value	n/a	n/a	CURRENT_TIMESTAMP	n/a	n/a	Male	n/a	n/a	n/a
Range of Values	0-9000	n/a	n/a	0-2000	0-400	Male, Female	0-9000	0-9999	n/a
Edit Rule	Enter Now/Edits Not Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Not Allowed	Enter Now/Edits Allowed

Comparisons Allowed									
Same Field									
All									
Eq/Not Eq									
>< >= <=									
Other Fields									
All									
Eq/Not Eq									
>< >= <=									
Value Expression									
All			Yes	Yes	Yes				
Eq/Not Eq	Yes								
>< >= <=			Yes	Yes	Yes				
Operations Allowed									
Same Field									
All									
Add/Subtract									
Multiply/Divide									
Concatenation									
Other Fields									
All									
Add/Subtract									
Multiply/Divide									
Concatenation									
Value Expression									
All									
Add/Subtract									
Multiply/Divide									
Concatenation									

TABLE	Caretaker												
GENERAL ELEMENTS													
Field Name	Caretaker ID	Care FName	Care LName	Care Phone	Care Address	Care Email	Hire Date	City	Zip	Salary	Shift Start	Shift End	State
Label													
Spec Type	Unique	Unique	Unique	Unique	Unique	Unique	Unique	Unique	Unique	Unique	Unique	Unique	Replica
Source Spec													
Shared By													State
Alias(es)													
Description	A unique identifier given to each caretaker on the day there hired.	The caretaker forename.	The caretakers surname.	The caretakers phone number used by the company to contact individuals.	The caretakers street addresss.		The specific date of employment for each caretaker assigned on the day of employment.	The city in which the caretaker lives.	The caretakers united states zip code.	The monthly amount that the caretaker will be paid.		Caretaker end of shift	The state in which the caretaker lives.
PHYSICAL ELEMENTS													
Data Type	INT	VARCHAR	VARCHAR	INT	VARCHAR	VARCHAR	DATETIME	VARCHAR	CHAR	DECIMAL	TIME	TIME	CHAR
Length	4						n/a	20			n/a	n/a	2
Decimal Places	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		n/a	n/a	n/a
Character Support								1 ***					
Letters (A-Z)	No	Yes	Yes	No	Yes	Yes	No	Yes	No	No	No	No	Yes
Numbers (0-9)		No	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No
Keybd (,./\$#)		No	No	No	No	Yes	Yes	No	No	No	Yes	Yes	No
Special		No	No	No	No	Yes	No	No	No	No	No	No	No
Input Mask	n/a	n/a	n/a	(###)###-####	n/a	n/a	YYYY-MM-DD HH:MM	n/a	n/a	n/a	n/a	n/a	AA
	n/a	n/a	n/a	(000)000-0000	n/a	n/a	00/00/00 12:00:00 AM	n/a	n/a	00000.00\$	n/a	n/a	MT
LOGICAL ELEMENTS													
Key Type	Primary	Non	Non	Non	Non	Non	Non	Non	Non	Non	Non	Non	Foreign
Key Structure	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple
Uniqueness	Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique
Null Support	No Nulls	No Nulls	No Nulls	No Nulls	No Nulls	Nulls Allowed	No Nulls	No Nulls	No Nulls	Nulls Allowed	Nulls Allowed	No Nulls	No Nulls
Values Entered By	System	User	User	User	User	User	User	User	User	User	User	User	User
Required Value	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Default Value	n/a	n/a	n/a	n/a	n/a	n/a	CURRENT_TIMESTAMP	n/a	n/a	n/a	n/a	n/a	MT
Range of Values	0-9000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Any states that reside within the U.S
			Enter Now/Edits				Enter Now/Edits Allowed	Enter Now/Edits				Enter Now/Edits	Enter Now/Edits
Edit Rule	Not Allowed	Allowed	Allowed	Allowed	Allowed	Allowed		Allowed	Allowed	Allowed	Allowed	Allowed	Allowed
Comparisons Allowed													
Same Field													
All													
Eq/Not Eq													
>< >= <=													
Other Fields													
Eq/Not Eq													
>< >= <=													
Value Expression							Vee			Vaa	Vaa	Vaa	
All Ea/Not Ea		Yes	Yes	Yes	Yes	Yes	Yes Yes	Yes	Yes	Yes Yes	Yes	Yes Yes	Yes
Eq/Not Eq		168	168	168	162	168		168	168				res
>< >= <=							Yes			Yes	Yes	Yes	

Operations Allowed							
Same Field							
All							
Add/Subtract							
Multiply/Divide							
Concatenation							
Other Fields							
All							
Add/Subtract							
Multiply/Divide							
Concatenation	Yes Yes	Yes		Yes	Yes		Yes
Value Expression							
All							
Add/Subtract							
Multiply/Divide							
Concatenation							

TABLE	Species			
GENERAL ELEMENTS				
Field Name	Species_Name	Weight	Size	Color
Label				
Spec Type	Unique	Unique	Unique	Unique
Source Spec				
Shared By				
Alias(es)				
Description	The phrase used to refer to each turtle.	The weight of each turtle in oz.	The width and height of each turtle in inches.	The color of the turtle species.
PHYSICAL ELEMENTS				
Data Type	VARCHAR	DECIMAL	DECIMAL	VARCHAR
Length	16	6	4	20
Decimal Places	n/a	2	2	n/a
Character Support				-
Letters (A-Z)	Yes	No	No	Yes
Numbers (0-9)		Yes	Yes	No
Keybd (,./\$#)	No	No	No	No
Special	No	No	No	No
Input Mask	n/a	n/a	n/a	n/a
Display Format	n/a	0000.00oz	000.00"	n/a
LOGICAL ELEMENTS				
Key Type	Primary	Non	Non	Non
Key Structure	Simple	Simple	Simple	Simple
Uniqueness	Unique	Non-Unique	Non-Unique	Non-Unique
Null Support	No Nulls	Nulls Allowed	Nulls Allowed	No Nulls
Values Entered By	User	User	User	User
Required Value	Yes	Yes	Yes	No
Default Value	n/a	n/a	n/a	n/a

Range of Values	n/a	0-9999	0-999	n/a
Edit Rule	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed
Comparisons Allowed				
Same Field				
All				
Eq/Not Eq				
>< >= <=				
Other Fields				
All				
Eq/Not Eq				
>< >= <=				
Value Expression				
All		Yes	Yes	
Eq/Not Eq	Yes	Yes	Yes	Yes
>< >= <=		Yes	Yes	
Operations Allowed				
Same Field				
All				
Add/Subtract				
Multiply/Divide				
• •				
Concatenation				
Concatenation				
Concatenation Other Fields				
Concatenation Other Fields All				
Concatenation Other Fields All Add/Subtract				
Concatenation Other Fields All Add/Subtract Multiply/Divide				
Concatenation Other Fields All Add/Subtract Multiply/Divide Concatenation				
Concatenation Other Fields All Add/Subtract Multiply/Divide Concatenation Value Expression				

0 4 4 :		
Concatenation		
Concatchation		

TABLE	Diet			
GENERAL ELEMENTS				
Field Name	Diet_ID	Food_Amount	Water_Amount	Food_Name
Label				
Spec Type	Unique	Unique	Unique	Replica
Source Spec				
Shared By				Food
Alias(es)				
Description	A unique identifier for each diet in the database.	The amount of food a turtle is prescribed to eat.	The amount of water a turtle is prescribed to drink.	The type/brand of food a turtle will eat.
PHYSICAL ELEMENTS				
Data Type	INT	DECIMAL	DECIMAL	VARCHAR
Length	4	4	4	20
Decimal Places	n/a	2	2	n/a
Character Support				
Letters (A-Z)		No	No	No
Numbers (0-9)		Yes	Yes	Yes
Keybd (,./\$#)	No	No	No	No
Special	No	No	No	No
Input Mask	n/a	n/a	n/a	n/a
Display Format	n/a	00.00kg	00.00oz	n/a
LOGICAL ELEMENTS				
Key Type	Primary	Non	Non	Non
Key Structure	Simple	Simple	Simple	Simple
Uniqueness	Unique	Non-Unique	Non-Unique	Non-Unique
Null Support	No Nulls	No Nulls	No Nulls	No Nulls
Values Entered By	System	User	User	User
Required Value	Yes	Yes	Yes	Yes

Default Value	n/a	n/a	n/a	n/a
Range of Values	0-9999	0-99	0-99	Any food products/brands currently stored within the organization
Edit Rule	Enter Now/Edits Not Allowed	Enter Now/Edits Not Allowed	Enter Now/Edits Not Allowed	Enter Now/Edits Allowed
Comparisons Allowed				
Same Field				
All				
Eq/Not Eq				
>< >= <=				
Other Fields				
All				
Eq/Not Eq				
>< >= <=				
Value Expression				
All		Yes	Yes	
Eq/Not Eq	Yes	Yes	Yes	Yes
>< >= <=		Yes	Yes	
Operations Allowed				
Same Field				
All				
Add/Subtract				
Multiply/Divide				
Concatenation				
Other Fields				
All				
Add/Subtract				
Multiply/Divide				
Concatenation				

Value Expression		
All		
Add/Subtract		
Multiply/Divide		
Concatenation		

TABLE	Food		
GENERAL ELEMENTS			
Field Name	Food_Name	Food_Inventory	
Label			
Spec Type	Unique	Unique	
Source Spec			
Shared By			
Alias(es)			
Description	The food name/brand.	The amount food we have left for each product.	
PHYSICAL ELEMENTS			
Data Type	VARCHAR	INT	
Length	20	5	
Decimal Places	n/a	n/a	
Character Support			
Letters (A-Z)	Yes	No	
Numbers (0-9)	No	Yes	
Keybd (,./\$#)	No	No	
Special	No	No	
Input Mask	n/a	n/a	
Display Format	n/a	n/a	
LOGICAL ELEMENTS			
Key Type	Primary	Non	
Key Structure	Simple	Simple	
Uniqueness	Unique	Non-Unique	
Null Support	No Nulls	Nulls Allowed	
Values Entered By	User	User	
Required Value	Yes	Yes	

	I		
Default Value	n/a	n/a	
Range of Values	Any food products/brands currently stored within the organization	0-9999	
Edit Rule	Enter Now/Edits Allowed	Enter Now/Edits Allowed	
Comparisons Allowed			
Same Field			
All			
Eq/Not Eq			
>< >= <=			
Other Fields			
All			
Eq/Not Eq			
>< >= <=			
Value Expression			
All			
Eq/Not Eq	Yes	Yes	
>< >= <=		Yes	
Operations Allowed			
Same Field			
All			
Add/Subtract			
Multiply/Divide			
Concatenation			
Other Fields			
All			
Add/Subtract			
Multiply/Divide			
Concatenation			

Value Expression		
All		
Add/Subtract		
Multiply/Divide		
Concatenation		

TABLE	Habitat					
GENERAL ELEMENTS						
Field Name	Habitat_ID	Habitat_Name	Average_Temp	Average_Humidity	sqft	Biome
Label	Room					
Spec Type	Unique	Unique	Unique	Unique	Unique	Replica
Source Spec						
Shared By						Biome
Alias(es)						
Description	A unique identifier for each habitat room number in the database.	The room name of each habitat.	The average tempature of each habitat in farenheit	The average humidty in percentages.	The weight of each turtle in kg.	The specific biome type for each habitat.
PHYSICAL ELEMENTS						
Data Type	CHAR	VARCHAR	DECIMAL	DECIMAL	DECIMAL	VARCHAR
Length	4	35	5	5	6	35
Decimal Places	n/a	n/a	2	2	2	n/a
Character Support						
Letters (A-Z)	No	Yes	No	No	No	Yes
Numbers (0-9)	Yes	No	Yes	Yes	Yes	No
Keybd (,./\$#)	No	No	No	No	No	No
Special	No	No	No	No	No	No
Input Mask	n/a	n/a	n/a	n/a	n/a	n/a
Display Format	n/a	n/a	000.00°	000.00%	0000.00sq. ft	n/a
LOGICAL ELEMENTS						
Key Type	Primary	Non	Non	Non	Non	Foreign
Key Structure	Simple	Simple	Simple	Simple	Simple	Simple
Uniqueness	Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique	Non-Unique
Null Support	No Nulls	No Nulls	Nulls Allowed	Nulls Allowed	Nulls Allowed	No Nulls
Values Entered By	User	User	User	User	User	User
Required Value	Yes	Yes	Yes	Yes	Yes	Yes

Default Value	n/a r	n/a	n/a	n/a	n/a	swamp
Range of Values	0-9999		0-150	0-100	0-9999	All biomes suitable for turtle habitation
Edit Rule		Enter Now/Edits Allowed				
Comparisons Allowed						
Same Field						
All						
Eq/Not Eq						
>< >= <=						
Other Fields						
All						
Eq/Not Eq						
>< >= <=						
Value Expression						
All			Yes	Yes	Yes	
Eq/Not Eq	Yes	Yes	Yes	Yes	Yes	Yes
>< >= <=			Yes	Yes	Yes	
Operations Allowed						
Same Field						
All						
Add/Subtract						
Multiply/Divide						
Concatenation						
Other Fields						
All						
Add/Subtract						
Multiply/Divide						
Concatenation						
Value Expression						

All			
Add/Subtract			
Multiply/Divide			
Concatenation			

TABLE	Biome		
GENERAL ELEMENTS			
Field Name	Biome		
Label			
Spec Type	Unique		
Source Spec			
Shared By			
Alias(es)			
Description	The specific biome type for each habitat.		
PHYSICAL ELEMENTS			
Data Type	VARCHAR		
Length	35		
Decimal Places	n/a		
Character Support			
Letters (A-Z)	Yes		
Numbers (0-9)			
Keybd (,./\$#)	No		
Special	No		
Input Mask	n/a		
Display Format	n/a		
LOGICAL ELEMENTS			
Key Type	Primary		
Key Structure	Simple		
Uniqueness	Unique		
Null Support	No Nulls		
Values Entered By	User		
Required Value	Yes		
Default Value			

Range of Values	All biomes suitable for turtle habitation		
	Enter Now/Edits		
Edit Rule	Allowed		
Comparisons Allowed			
Same Field			
All			
Eq/Not Eq			
>< >= <=			
Other Fields			
All			
Eq/Not Eq			
>< >= <=			
Value Expression			
All			
Eq/Not Eq			
>< >= <=			
Operations Allowed			
Same Field			
All			
Add/Subtract			
Multiply/Divide			
Concatenation			
Other Fields			
All			
Add/Subtract			
Multiply/Divide			
Concatenation			
Value Expression			
All			

Add/Subtract		
Multiply/Divide		
Concatenation		

TABLE	State		
GENERAL ELEMENTS			
Field Name	State	State_Name	
Label			
Spec Type	Unique	Unique	
Source Spec			
Shared By			
Alias(es)			
Description	The associated us state short name.	The associated us state full name.	
PHYSICAL ELEMENTS			
Data Type	CHAR	VARCHAR	
Length	2	20	
Decimal Places	n/a	n/a	
Character Support			
Letters (A-Z)	Yes	Yes	
Numbers (0-9)	No	No	
Keybd (,./\$#)	No	No	
Special	No	No	
Input Mask	AA	n/a	
Display Format	MT	n/a	
LOGICAL ELEMENTS			
Key Type	Primary	Non	
Key Structure	Simple	Simple	
Uniqueness	Unique	Non-Unique	
Null Support	No Nulls	No Nulls	
Values Entered By	User	User	
Required Value	Yes	Yes	
Default Value			

	Any states that	Any states that	
		reside within the	
Range of Values	U.S	U.S	
Edit Rule	Enter Now/Edits Allowed	Enter Now/Edits Allowed	
Comparisons Allowed			
Same Field			
All			
Eq/Not Eq			
>< >= <=			
Other Fields			
All			
Eq/Not Eq			
>< >= <=			
Value Expression			
All			
Eq/Not Eq	Yes	Yes	
>< >= <=			
Operations Allowed			
Same Field			
All			
Add/Subtract			
Multiply/Divide			
Concatenation			
Other Fields			
All			
Add/Subtract			
Multiply/Divide			
Concatenation			
Value Expression			
All			

Add/Subtract		
Multiply/Divide		
Concatenation		

TABLE	Turtle Schedule			
GENERAL ELEMENTS				
Field Name	Caretaker_ID	Turtle_ID	Schedule_Start	Schedule_End
Label				
Spec Type	Replica	Replica	Unique	Unique
Source Spec				
Shared By	Caretaker	Turtle		
Alias(es)				
Description	Associates a caretaker from the caretaker table	Associates a turtle from the turtle table	The start time that a caretaker will attend to a turtle.	The end time that a caretaker will attend to a turtle.
PHYSICAL ELEMENTS				
Data Type	INT	INT	TIME	TIME
Length	4	4		
Decimal Places	n/a	n/a	n/a	n/a
Character Support				
Letters (A-Z)		No	Yes	Yes
Numbers (0-9)		Yes	Yes	Yes
Keybd (,./\$#)	No	No	No	No
Special	No	No	No	No
Input Mask	n/a	n/a	HH:MM	HH:MM
Display Format	n/a	n/a	1:00 PM	12:00 AM
LOGICAL ELEMENTS				
Key Type	Primary	Primary	Non	Non
Key Structure	Composite	Composite	Simple	Simple
Uniqueness	Unique	Unique	Non-Unique	Non-Unique
Null Support	No Nulls	No Nulls	No Nulls	No Nulls
Values Entered By	User	User	User	User
Required Value	Yes	Yes	Yes	Yes

Default Value	n/a	n/a	n/a	n/a
Range of Values	0-9000	0-9000	12:00AM-11:59PM	12:00AM-11:59PM
Edit Rule	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed	Enter Now/Edits Allowed
Comparisons Allowed				
Same Field				
All				
Eq/Not Eq				
>< >= <=				
Other Fields				
All				
Eq/Not Eq				
><>=<=				
Value Expression			.,	.,
All			Yes	Yes
Eq/Not Eq	Yes	Yes	Yes	Yes
>< >= <=			Yes	Yes
Operations Allowed				
Same Field				
All				
Add/Subtract				
Multiply/Divide				
Concatenation				
Other Fields				
All				
Add/Subtract			Yes	Yes
Multiply/Divide				
Concatenation				
Value Expression				
All				
Add/Subtract				

Multiply/Divide		
Concatenation		

Business Rule Name	Turtle		
RULE INFO			
Statement	A turtle must be associated with one diet.	A turtle must be associated with one species.	A turtle species can only be assigned to a pre-existing entry in the species table.
Constraint			
Туре	Database Oriented	Database Oriented	Database Oriented
Category	Field Specific	Field Specific	Field Specific
TestOn			
Insert	Yes	Yes	Yes
Delete	No	No	No
Update	Yes	Yes	Yes
STRUCTURES AFFECTED			
Field Names	Diet ID	Species Name	Species Name
Table Names	Turtle	Turtle	Turtle, Species
FIELD ELEMENTS AFFECTED			
Physical Elements			
Data Type			
Length			
Decimal Place			
Character Support			
Input Mask			
Display Format			
Logical Elements			
Key Type			
Key Structure			
Uniqueness			
Null Support	No	No	
Values Entered By			
Required Value	Yes	Yes	
Default Value			

Range of Values			Yes
Comparasions Allowed			
Operations Allowed			
Edit Rule			
RELATIONSHIP CHARACTERISTICS AFFECTED			
Deletion Rule			
Type Of Participation			
Degree of Paticipation			
ACTION TAKEN			
Document actual action taken for rule	The field is set to no nulls and made a required value.	The field is set to no nulls and made a required value.	The user can only choose from a selection of turtle species inside the species table

Business Rule Name	Caretaker					
RULE INFO						
Statement	A caretaker must be associated with a first name.	A caretaker must be associated with a last name.	A caretaker must be associated with a phone number.	A caretaker must be associated with a state	A caretaker must be associated with a street, city, and zip.	
Constraint				Can only be associated with values inside the State table's state field		
Туре	Database Oriented	Database Oriented	Database Oriented	Database Oriented	Database Oriented	
Category	Field specific	Field specific	Field specific	Field specific	Field specific	
TestOn						
Insert	Yes	Yes	Yes	Yes	Yes	
Delete	No	No	No	No	No	
Update	Yes	Yes	Yes	Yes	Yes	
STRUCTURES AFFECTED						
Field Names	CareFname	CareLname	CarePhone	State	CareAddress,City,Zip	
Table Names	Caretaker	Caretaker	Caretaker	Caretaker,State	Caretaker	
FIELD ELEMENTS AFFECTED						
Physical Elements						
Data Type						
Length						
Decimal Place						
Character Support						
Input Mask						
Display Format						
Logical Elements						
Key Type						
Key Structure						
Uniqueness						
Null Support	No	No	No	No	No	
Values Entered By						
Required Value	Yes	Yes	Yes	Yes	Yes	
Default Value						
Range of Values				Yes		
Comparasions Allowed						
Operations Allowed						
Edit Rule						

RELATIONSHIP CHARACTERISTICS AFFECTED						
Deletion Rule						
Type Of Participation						
Degree of Paticipation						
ACTION TAKEN						
Document actual action taken for rule	The field is set to no nulls and made a required value.	The field is set to no nulls and made a required value.	The field is set to no nulls and made a required value.	The field is set to no nulls, made a required value, and set to a range of values.	The fields are set to no nulls and set to required.	

Business Rule Name	Turtle Schedule				
RULE INFO					
	Turtle ID field cannot	Caretaker ID field	Shift start can not be	Shift end can not be	
Statement	be null.	cannot be null	null.	null.	
Constraint					
Туре	Database Oriented	Database Oriented	Database Oriented	Database Oriented	
Category	Field Specific	Field Specific	Field Specific	Field Specific	
TestOn					
Insert	Yes	Yes	Yes	Yes	
Delete	No	No	No	No	
Update	Yes	Yes	Yes	Yes	
STRUCTURES AFFECTED					
Field Names	Turtle ID	Caretaker ID	Caretaker ID	Caretaker ID	
Table Names	Turtle Schedule	Turtle Schedule	Turtle Schedule	Turtle Schedule	
FIELD ELEMENTS AFFECTED					
Physical Elements					
Data Type					
Length					
Decimal Place					
Character Support					
Input Mask					
Display Format					
Logical Elements					
Key Type					
Key Structure					
Uniqueness					
Null Support	No	No	No	No	
Values Entered By					
Required Value	Yes	Yes	Yes	Yes	
Default Value					
Range of Values					
Comparasions Allowed					
Operations Allowed					
Edit Rule					
RELATIONSHIP CHARACTERISTICS AFFECTED					
Deletion Rule					
Type Of Participation					
Degree of Paticipation					

ACTION TAKEN					
	Ensures the Turtle ID field is not null	Ensures the Caretaker ID field is	Ensures the Caretaker ID field is	Ensures the Caretaker ID field is	
Document actual action taken for rule		not null	not null	not null	

GENERAL INFORMATION	I											
View Name	Turtle Species	Turtle Habitat	Caretaker Salary	Caretaker Shift	Care Hours	Care Info	Turtle Info	Food Inventory	Turtle Species Count	Check Caretakers	Check Turtles	
Туре	Data	Data	Aggregate	Data	Data	Data	Data	Data	Aggregate	Data	Data	
Description	information regarding	Povides information on the turtles preffered habitat.	Views salary amounts for caretakers on monthly and yearly basis.	Gathers caretaker working hours.	Provides how long each caretaker cares for a turtle.	Provides information on caretaker last name, first name, phone number, email, and address	Provides information on a turtles id, name, adoption date, gender, weight, size, habitat, favorite food, species, and species color	Checks what food the organization has and the quantity of each product.	Provides the total number of turtles.	Provides the number of turtles without caretakers.	Provides the number of Caretakers without turtles.	
BASE TABLES												
Tables	Turtle, Species	Turtle, Habitat	Caretaker	Caretaker,Shift	Caretaker, Turtle, Turtle Schedule	Caretaker, State	Turtle, habitat, diet, species	Food	Turtle	Turtle, Turtle Schedule	Caretaker, Turtle Schedule	
Calculated Field Expression	ns											
Name			Salary Yearly						Species Count			
Expression	1		salary * 12						Count(speciesname)			
Name												
Expression	1											
Name												
Expression	1											
Name												
Expression	1											
Filters												
Field Name									speciesname			
Condition	1								GROUPBY="SpeciesName"	WHERE ts.caretaker_id IS NULL	WHERE ts.turtle_id IS NULL	
Field Name												
Condition	1											
Field Name												
Condition	1											
Field Name												
Condition	1											