

Ejercicio 6: Registros Parte 2, Relaciones de tipo de registro

Crear relaciones de registro

The screenshot shows the 'Data Model' configuration page for 'AX Vehicle'. On the left is a navigation menu with categories like DATA, USER INTERFACES, SECURITY, and MONITORING. The main area is titled 'Data Model' and contains a table of fields. A red box highlights the 'ADD RELATIONSHIP' button in the center of the page.

Field Name	Type			
vehicleid	Number (Integer)	⌵	✎	⊞
vehiclemake	Text	⌵	✎	⊞
vehiclemodel	Text	⌵	✎	⊞
vehiclecolor	Text	⌵	✎	⊞
vehiclecondition	Number (Integer)	⌵	✎	⊞
vehiclestatus	Number (Integer)	⌵	✎	⊞
vehiclecategory	Number (Integer)	⌵	✎	⊞
vehiclemileage	Number (Integer)	⌵	✎	⊞
vehicleyear	Number (Integer)	⌵	✎	⊞
vehiclevin	Text	⌵	✎	⊞
vehicleelectroniccodeid	Date	⌵	✎	⊞
vehiclemaintenancecodeid	Date	⌵	✎	⊞
vehicleimage	Number (Integer)	⌵	✎	⊞

Add Relationship to AX Vehicle

Relationship Name

maintenance

This will be used to reference the relationship and help access the related data. Choose a name that is descriptive and unique to this relationship.

Relationship Type

One to Many

AX Vehicle



Maintenance

Many to One

AX Vehicle



Maintenance

One to One

AX Vehicle



Maintenance

Common Fields

AX Vehicle *

vehicleid - Number (Integer)

Maintenance *

vehicleid - Number (Integer)

Preview

Search AX Vehicles

BACK CANCEL

ADD



Add Relationship to AX Vehicle

Relationship Name

category

This will be used to reference the relationship and help access the related data. Choose a name that is descriptive and unique to this relationship.

Relationship Type

One to Many
AX Vehicle
Category

Many to One
AX Vehicle
Category

One to One
AX Vehicle
Category

Common Fields

AX Vehicle *

vehiclecategory - Number (Integer)

Category *

id - Number (Integer)

Preview

Search AX Vehicles

BACK CANCEL

ADD



Related Record Type

Status

Related Record Type

Condition

Add Relationship to AX Vehicle

Relationship Name

This will be used to reference the relationship and help access the related data. Choose a name that is descriptive and unique to this relationship.

Relationship Type

One to Many

AX Vehicle



Status

Many to One

AX Vehicle



Status

One to One

AX Vehicle



Status

Common Fields

AX Vehicle ? **Status** ?

vehiclestatus - Number (Integer)

=

id - Number (Integer)

Preview

[BACK](#)
[CANCEL](#)
ADD

Add Relationship to AX Vehicle

Relationship Name

This will be used to reference the relationship and help access the related data. Choose a name that is descriptive and unique to this relationship.

Relationship Type

One to Many

AX Vehicle



Condition

Many to One

AX Vehicle



Condition

One to One

AX Vehicle



Condition

Common Fields

AX Vehicle ? **Condition** ?

vehiclecondition - Number (Integer)

=

id - Number (Integer)

Preview

[BACK](#)
[CANCEL](#)
ADD

User Filters

End users may interact with these filters to narrow down the record list.

	Filter Name	Filter Label	Definition
	Mileage Category	"Mileage Category"	mileageCategory
	Category	"Category"	category.label
	Status	"Status"	status.label
	Condition	"Condition"	condition.label

[+ New User Filter](#)

News Tasks (3) Records Reports Actions

AX Vehicles

SEARCH MILEAGE CATEGORY: Any CATEGORY: Any

STATUS: Any CONDITION: Any

VIN	Make	Model	Year	Next Maintenance Date	Added By	Mileage Category	Image
2F2D648C3N4329574	Ford	F150	2019	8/10/2020	Regina Registrar	Low Mileage	
2L3ED45V3D4030403	Lexus	ES350	2018	8/24/2020	Regina Registrar	Low Mileage	
7G99G95789488947	VW	Corrado	2015	11/22/2020	Suzanne Supervisor	Low Mileage	
7Y5893806785666	Honda	Pilot	2020	11/19/2020	Suzanne Supervisor	Low Mileage	
2H7X864H88872134	Honda	Odyssey	2020	8/2/2020	Regina Registrar	Low Mileage	

+ ADD VEHICLE

News Tasks (3) Records Reports Actions

AX Vehicles

SEARCH MILEAGE CATEGORY: Any CATEGORY: **Luxury**

STATUS: **In Maintenance** CONDITION: **Minor Use**

VIN	Make	Model	Year	Next Maintenance Date	Added By	Mileage Category	Image
2L3ED45V3D4030403	Lexus	ES350	2018	8/24/2020	Regina Registrar	Low Mileage	
3FG896794U7456456	MB	GLS	2018	7/20/2020	Regina Registrar	Low Mileage	

+ ADD VEHICLE

Open the Learning Center to select a tutorial or video

Usar relaciones de tipo de registro en campos de registro personalizados

Create Custom Record Field

Select a Template Configure Values Set Name and Type

CONFIGURE VALUES

AGGREGATE RELATED RECORD FIELDS

Field: maintenance_cost

Aggregation Function: Sum of

Filters: Filter related record values?

TEST

vehicleid	vehiclemake	Custom Record Field
1	Ford	1200
2	Lexus	700
3	VW	300
4	Honda	380
5	Honda	70
6	Toyota	120
8	Ford	850
9	MB	0
10	Toyota	300

BACK CANCEL NEXT

Create Custom Record Field

Select a Template Configure Values Set Name and Type

SET NAME AND TYPE

Name

Type

Number (Integer)

TEST

vehicleid	vehiclemake	maintenanceRequestCount
1	Ford	2
2	Lexus	3
3	VW	2
4	Honda	3
5	Honda	6
6	Toyota	2
8	Ford	8
9	VW	7
10	Toyota	1

BACK CANCEL **CREATE**

Actualizar interfaz de vista de resumen

Vehicle

Year	2019		
Make	Ford	Condition	10
Color	Red	Mileage	500
Model	F150	Mileage Category	Low Mileage
Category	3	Date Added	May 4, 2019
VIN	2F2DE4BC8N4309374	Next Maintenance Date	August 10, 2020
Status	9		

Read-only Grid

No items available

COMPONENT CONFIGURATION

List of Any Type

Read-only Grid

DATA

RECORD TYPE QUERY VARIABLE

RULE EXPRESSION

COMPONENT CONFIGURATION

List of Any Type

Read-only Grid

Maintenance

FILTER RECORDS

Related Record Data

FILTER RELATED RECORDS

Filter Records

Define which records from the record type return based on the specified conditions.

Basic Expression

ignore filters with empty values

Only records that meet all filter conditions will be returned. [Learn more about creating filters.](#)

Field	Condition	Value	Apply Filter
No filters created			
<input type="button" value="Add Filter"/>			
<input type="button" value="CANCEL"/>			<input type="button" value="OK"/>

Filter Records

Define which records from the record type return based on the specified conditions.

Basic Expression

ignore filters with empty values

Only records that meet all filter conditions will be returned. [Learn more about creating filters.](#)

Field	Condition	Value	Apply Filter
<input checked="" type="checkbox"/> vehicleId <input type="text" value="x"/>	=	null	<input type="button" value="Always"/>
<input type="button" value="Add Filter"/>			
<input type="button" value="CANCEL"/>			<input type="button" value="OK"/>

1 ▾ ri!vehicle [AX Vehicle.vehicleId]

Filter Records

Define which records from the record type return based on the specified conditions.

Basic Expression

ignore filters with empty values

Only records that meet all filter conditions will be returned. [Learn more about creating filters.](#)

Field	Condition	Value	Apply Filter
<input checked="" type="checkbox"/> vehicleId <input type="text" value="x"/>	=	r!vehicle(recordType=AX Vehicle,fields=vehicleId)	<input type="button" value="Always"/>
<input type="button" value="Add Filter"/>			
<input type="button" value="CANCEL"/>			<input type="button" value="OK"/>

Read-only Grid

Search Maintenance Requests SEARCH

Request	Issue	Vehicle	Mechanic	Service Status	Request Date
MR0001	Flat Tire	2F2DE48C8N4309374	Mike Mechanic	Completed	5/3/2020
MR0042	Burning smell after driving for more than 15 minutes. Verified it's not from the oil leak.	2F2DE48C8N4309374	Fred Fixit	Completed	5/5/2020
MR0043	Seat belt problem on driver's side. Problem is with latch.	2F2DE48C8N4309374	Mike Mechanic	Completed	5/7/2020
MR0059	Water leaking inside car	2F2DE48C8N4309374	Mike Mechanic	Completed	5/12/2020
MR0060	The brakes are noisy.	2F2DE48C8N4309374	Mike Mechanic	Completed	5/12/2020
MR0114	Oil leak	2F2DE48C8N4309374	Mike Mechanic	Completed	6/8/2020

6 items

Maintenance Requests

Search Maintenance Requests SEARCH

Request	Issue	Vehicle	Mechanic	Service Status	Request Date
MR0001	Flat Tire	2F2DE48C8N4309374	Mike Mechanic	Completed	5/3/2020
MR0042	Burning smell after driving for more than 15 minutes. Verified it's not from the oil leak.	2F2DE48C8N4309374	Fred Fixit	Completed	5/5/2020
MR0043	Seat belt problem on driver's side. Problem is with latch.	2F2DE48C8N4309374	Mike Mechanic	Completed	5/7/2020
MR0059	Water leaking inside car	2F2DE48C8N4309374	Mike Mechanic	Completed	5/12/2020
MR0060	The brakes are noisy.	2F2DE48C8N4309374	Mike Mechanic	Completed	5/12/2020
MR0114	Oil leak	2F2DE48C8N4309374	Mike Mechanic	Completed	6/8/2020

6 items

List of Any Type

Read-only Grid

Label

Maintenance Request

Label Position

Above

Instructions

Help Tooltip

Empty Grid Message

Maintenance Requests

Search Maintenance Requests SEARCH

Request	Issue	Vehicle	Mechanic	Service Status	Request Date
MR0001	Flat Tire	2F2DE48C8N4309374	Mike Mechanic	Completed	5/3/2020
MR0042	Burning smell after driving for more than 15 minutes. Verified it's not from the oil leak.	2F2DE48C8N4309374	Fred Fixit	Completed	5/5/2020
MR0043	Seat belt problem on driver's side. Problem is with latch.	2F2DE48C8N4309374	Mike Mechanic	Completed	5/7/2020
MR0059	Water leaking inside car	2F2DE48C8N4309374	Mike Mechanic	Completed	5/12/2020
MR0060	The brakes are noisy.	2F2DE48C8N4309374	Mike Mechanic	Completed	5/12/2020
MR0114	Oil leak	2F2DE48C8N4309374	Mike Mechanic	Completed	6/8/2020

Actualizar campos de categoría, estado y condición

```

1 ri!vehicle[ AX Vehicle.category.label ]
ri!vehicle[ AX Vehicle.status.label ] ri!vehicle[ AX Vehicle.condition.label ]
    
```

Expression	Value
<pre> 2 recordType: recordType!AX Vehicle , 3 fields: { 4 5 }, </pre>	AX Vehicle vehicleid: 1 vehiclemake: "Ford" vehiclemodel: "F150" vehiclecolor: "Red" vehicleconditio... More

Expression	Value
<pre> 3 fields: { 4 AX Vehicle.category.label , 5 AX Vehicle.status.label , 6 AX Vehicle.condition.label 7 } </pre>	AX Vehicle vehicleid: 1 category: Category id: 3 label: "Truck" status: Status id: 9... More

Vehículo

Año	2019	Condición	Como nuevo	
Hacer	Vedo	Kilometraje	500	
Color	Roja	Categoría de millaje	Bajo kilometraje	
Modelo	F150	Fecha Agregada	4 de mayo de 2019	
Categoría	Camión	Próxima fecha de mantenimiento	10 de agosto de 2020	
VIN	2F2DE48C8N4309374			
Estado	En mantenimiento			

Solicitudes de mantenimiento

Solicitud	Tema	Vehículo	Mecánico	Estado del servicio	Fecha de solicitud
NR0001	Neumático desinflado	2F2DE48C8N4309374	mike mecanico	Terminado	3/5/2020
NR0042	Olor a quemado después de conducir durante más de 15 minutos. Verificado que no es por la fuga de aceite.	2F2DE48C8N4309374	Fred Fixit	Terminado	5/5/2020
NR0043	Problema con el cinturón de seguridad del lado del conductor. El problema es con el pestillo.	2F2DE48C8N4309374	mike mecanico	Terminado	5/7/2020
NR0059	Fuga de agua en el interior del coche	2F2DE48C8N4309374	mike mecanico	Terminado	12/05/2020
NR0060	Los frenos son ruidosos.	2F2DE48C8N4309374	mike mecanico	Terminado	12/05/2020
NR0114	Fuga de aceite	2F2DE48C8N4309374	mike mecanico	Terminado	6/8/2020

Agregar un filtro de usuario basado en expresiones

Filter Expression

```
1+ allLocalVariables(  
2+   localVehicleMakes: allQueryRecordType(  
3+     recordType: recordTypeAxVehicle,  
4+     fields: allAggregationFields(  
5+       groupings: [  
6+         allGrouping(  
7+           field: AxVehicle.vehiclemake,  
8+           alias: "make"  
9+         )  
10+       ]  
11+     ),  
12+     measures: [  
13+       allMeasure(  
14+         field: AxVehicle.vehiclemake,  
15+         function: "COUNT",  
16+         alias: "count"17+       )  
18+     ]  
19+   )  
20+ )
```

CANCEL OK

News Tasks (3) Records Reports Actions

AX Vehicles

+ ADD VEHICLE

SEARCH AX Vehicles

MILEAGE CATEGORY | Any

STATUS | Any

CONDITION | Any

CATEGORY | Any

MAKE | Any

- ✓ Chevy (1)
- ✓ Ford (9)
- ✓ Honda (8)
- ✓ Honda (1)
- ✓ Lexus (2)
- ✓ MB (1)
- ✓ Toyota (5)
- ✓ VW (3)

VIN	Make	Model	Year	Next Maintenance Date	Added By	Mileage Category	Image
2F2DE48C8N4309374	Ford	F150	2019	8/10/2020	Regina Registrar		
2L3ED45V3D4030403	Lexus	ES350	2019	8/24/2020	Regina Registrar		
7G90G567894589047	VW	Corrado	2015	11/22/2020	Suzanne Supervisor	Low Mileage	
7Y569K08856785656	Honda	Pilot	2020	11/18/2020	Suzanne Supervisor	Low Mileage	