

Windchill Assignment 7:

Maneesh Assignment 5.

1. Create Four global attribute (Data Type)

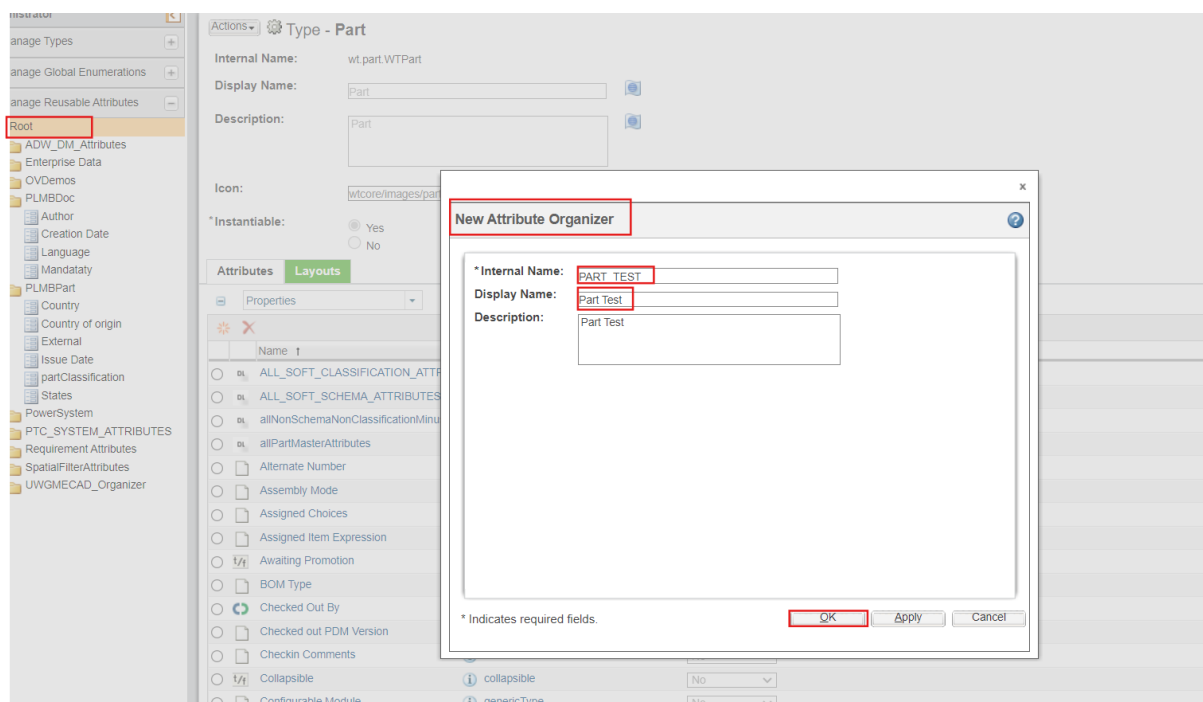
- a. partClassification (String)
- b. isDrawing (boolean)
- c. releaseDate (DateAndTime)
- d. height (real number)

Q 1: Ans:

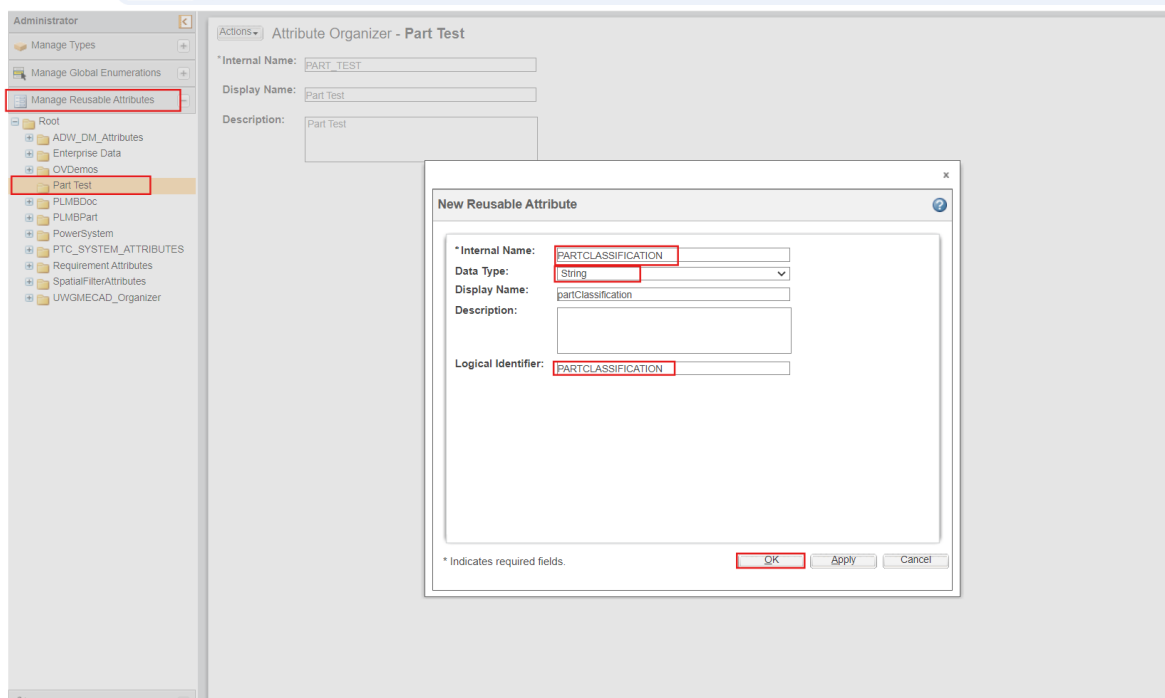
Steps are as follows,

Step 1: Login as Administration(wcadmin) -> under Organization (Org_Chachar2) -> utilities -> Type & Attribute Management -> Manage Reusable Attributes.

Step 2: r/c on Root -> create New Attribute Organizer -> Add Internal Name, Display name & Description, I have added as PART_TEST & Part Test -> click on OK.

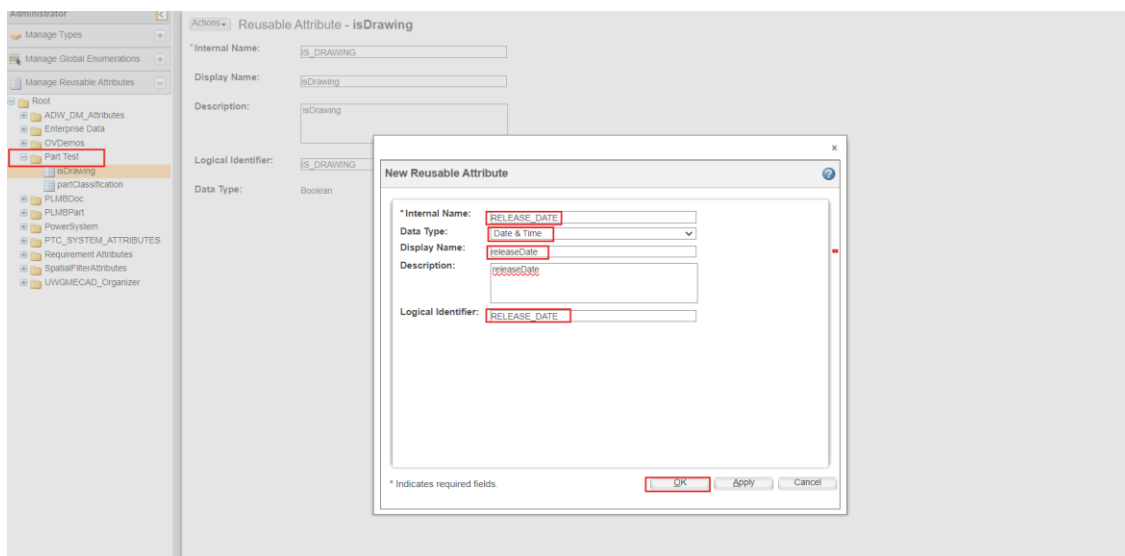


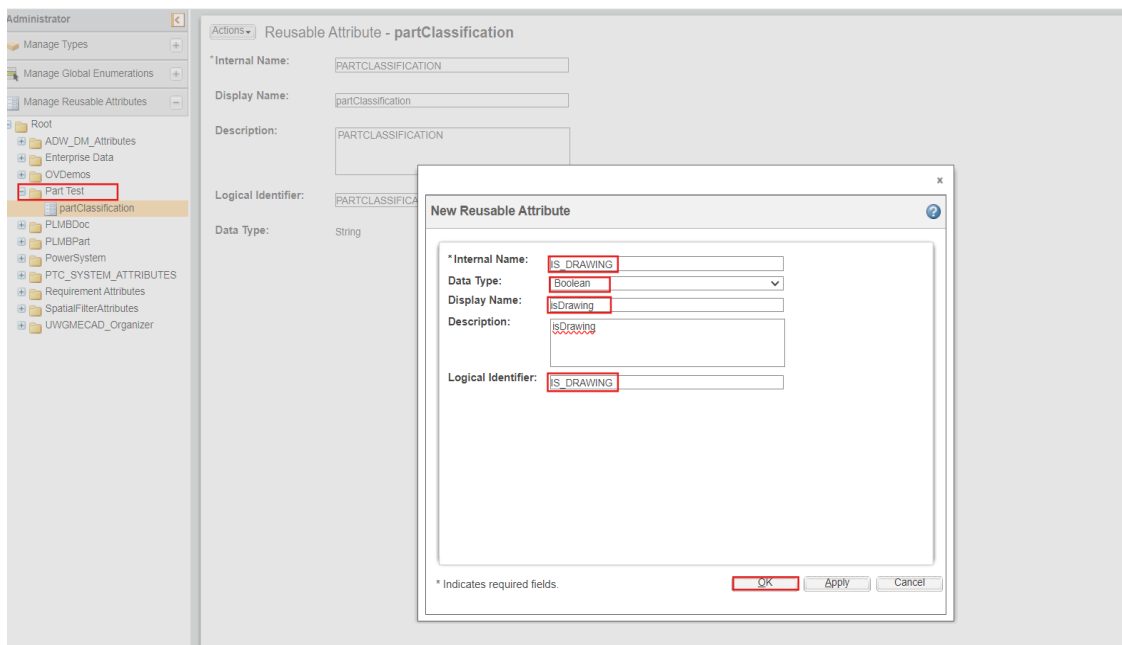
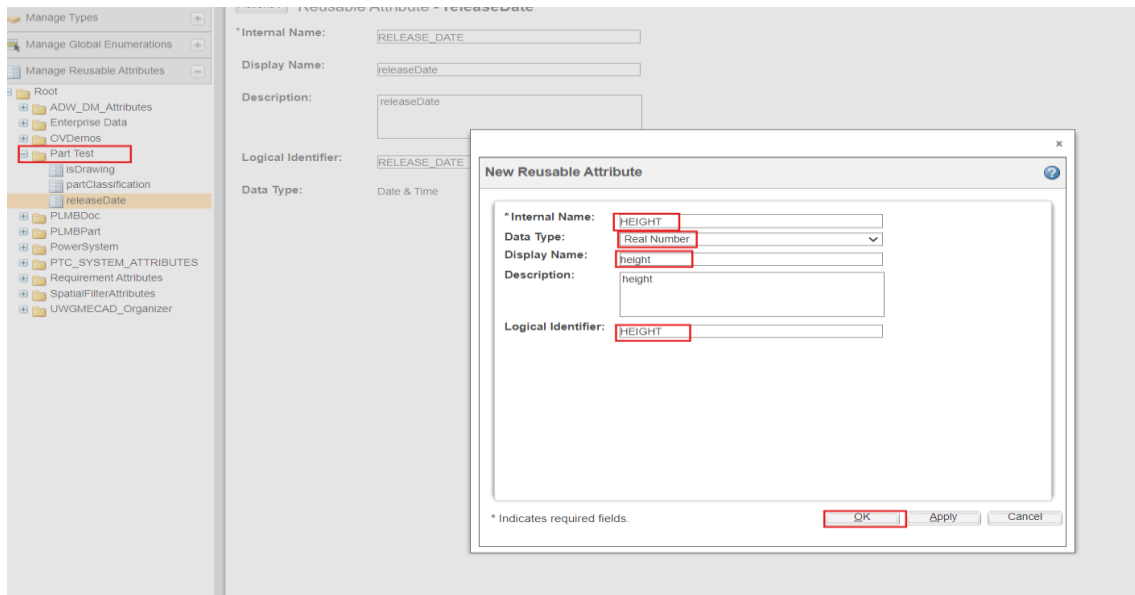
Step 3: -> r/c on Part Test -> create a New Reusable Attribute -> Add Internal Name & Data Type as per requirement as PARTCLASSIFICATION & String, Display Name as partClassification & Logical Identifier same as Internal Name ->click on Ok.



Step 4: Similarly create global reusable attributes for the remaining

- b. isDrawing (Boolean)
- c. releaseDate (DateAndTime)
- d. height (real number) under Part Test -> then click on done button.

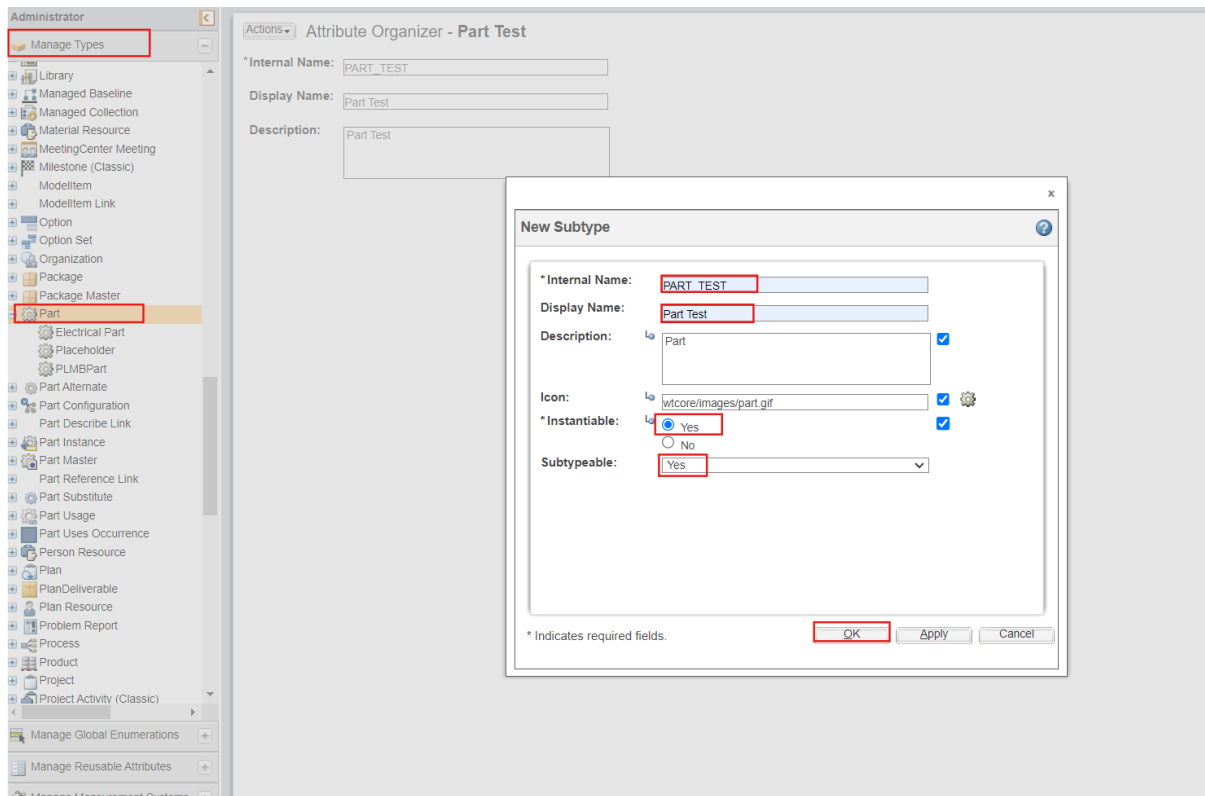




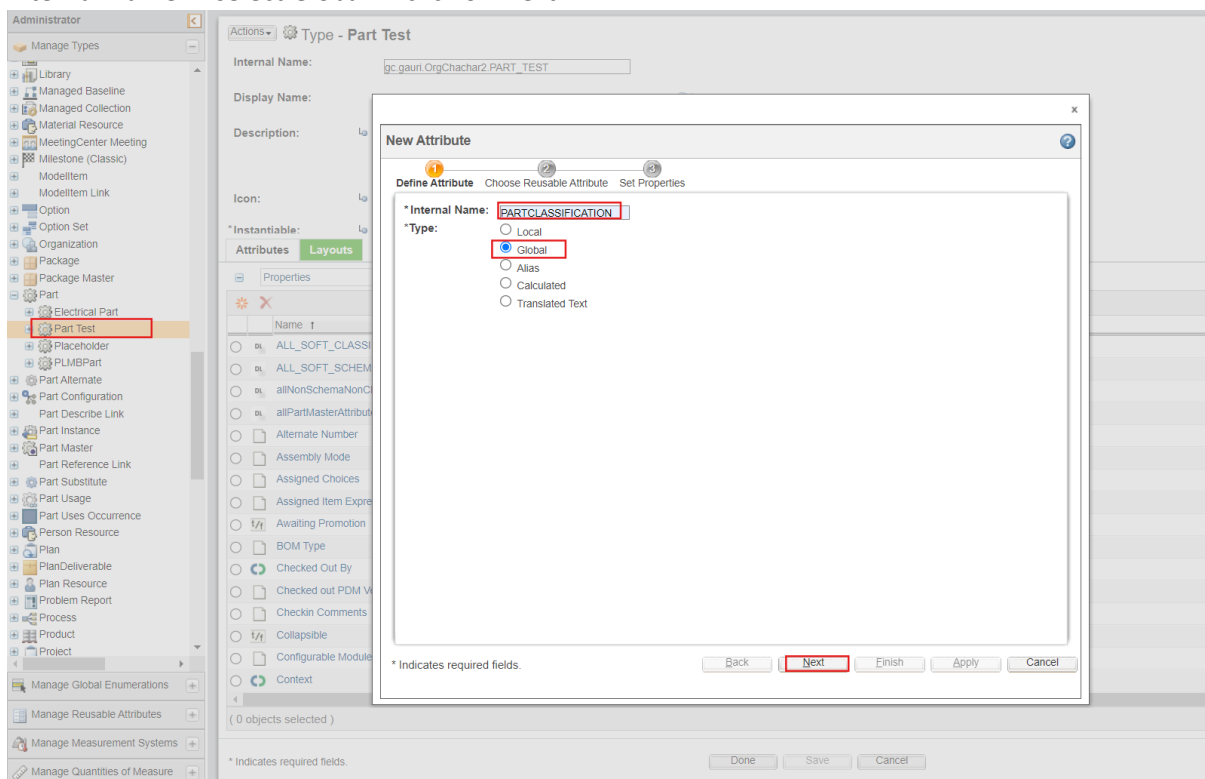
2. Use these attributes in the wt.part.WTPart Object.

Q 2: Ans:

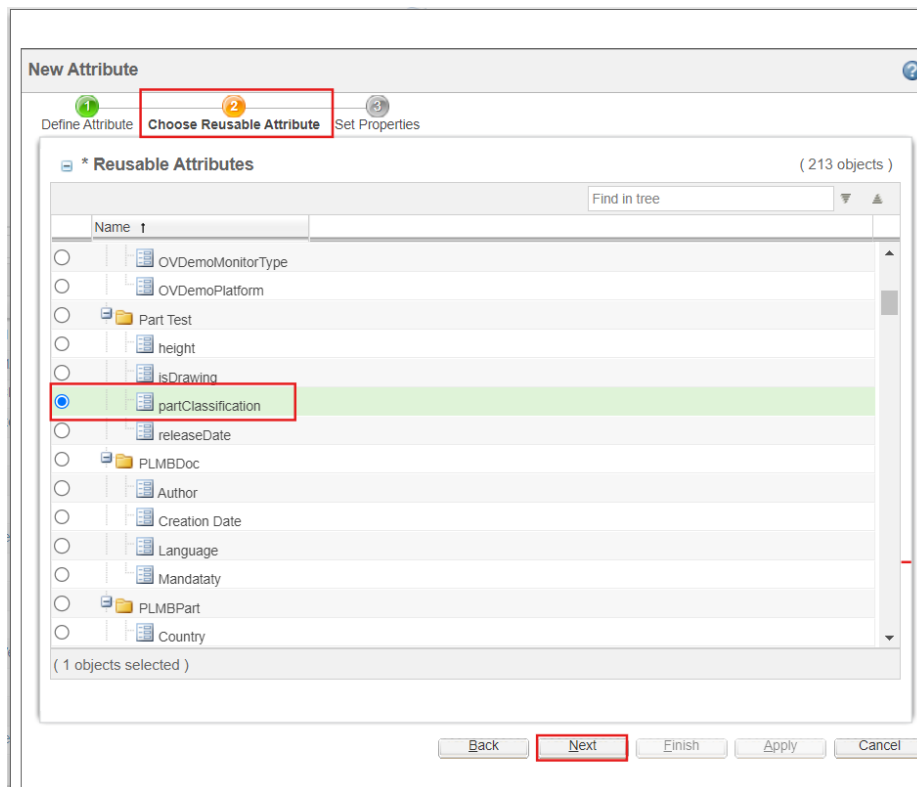
Step 1: Now go to Manage type -> r/c on Part -> create new subtype -> add Internal Name as PART_TEST, Display Name as Part Test, Instantiable as Yes, Subtypeable as Yes -> click on Ok.



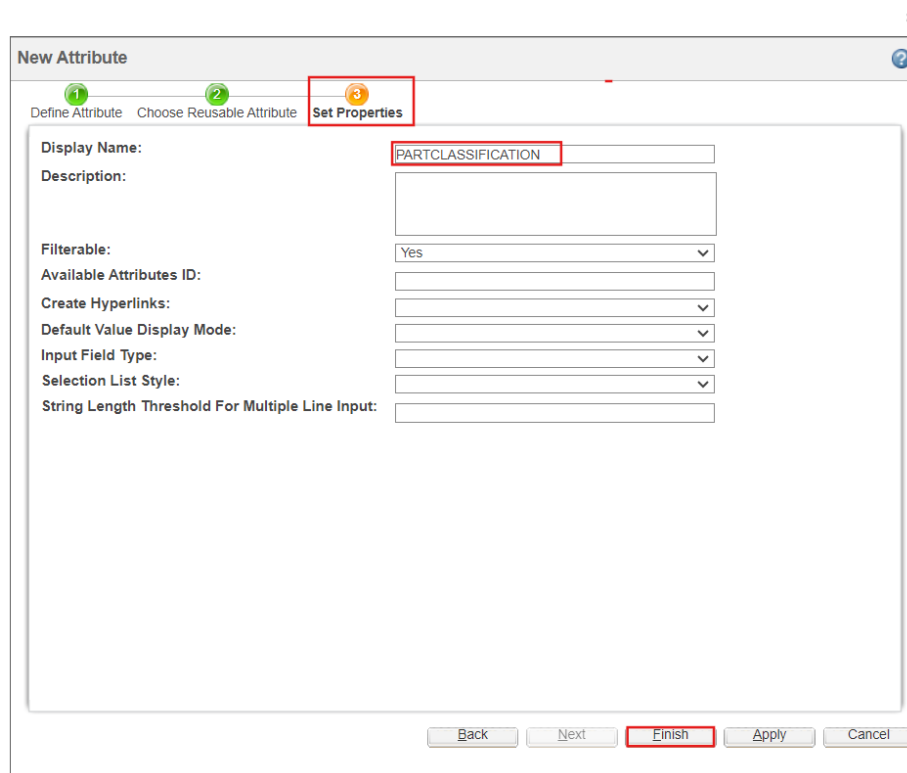
Step 4: Under Part Test -> click on edit under Action dropdown -> create a new Attribute -> Add Internal Name -> select Global -> click on Next



Under Choose Reusable Attribute -> choose partClassification under Part Test -> click on Next.



Under Set Properties -> Display Name Auto-populates -> click on Finish.



You can find the PARTCLASSIFICATION gets added under Attributes in below screenshot.

Administrator

Manage Types

- Library
- Managed Baseline
- Managed Collection
- Material Resource
- MeetingCenter Meeting
- Milestone (Classic)
- ModelItem
- ModelItem Link
- Option
- Option Set
- Organization
- Package
- Package Master
- Part
- Electrical Part**
- Part Test**
- Placeholder
- PLMBPart
- Part Alternate
- Part Configuration
- Part Describe Link
- Part Instance
- Part Master
- Part Reference Link
- Part Substitute
- Part Usage
- Part Uses Occurrence
- Person Resource
- Plan
- PlanDeliverable
- Plan Resource
- Problem Report
- Process
- Product
- Product 1

Actions **Type - Part Test**

Internal Name: gc.gauri.OrgChachar2.PART_TEST

Display Name: Part Test

Description: Part

Icon: wtcore/images/part.gif

***Instantiable:** Yes

Attributes **Layouts**

Properties

Name	Internal Name	Filterable
<input type="radio"/> Minimum Required	minimumRequired	No
<input type="radio"/> Modified By	iterationInfo.modifier	Yes
<input type="radio"/> Name	name	Yes
<input type="radio"/> Note	lock.note	No
<input type="radio"/> Number	number	Yes
<input type="radio"/> Organization Name	organizationReference	No
<input type="radio"/> Owner	ownership.owner	No
<input type="radio"/> PARTCLASSIFICATION	PARTCLASSIFICATION	Yes
<input type="radio"/> PDM Checkout Status	pdmCheckoutStatus	No
<input type="radio"/> Phantom Manufacturing Part	phantom	No
<input type="radio"/> Phase	phase	No
<input type="radio"/> Project Share Status	interopInfo.iopState	No
<input type="radio"/> Reference Designator	referenceDesignatorRange	No

Step 5: Similarly do the same steps for the remaining attributes

b. isDrawing (Boolean)

c. releaseDate (DateAndTime)

d. height (real number).

3. Create some Part objects, and populated these attributes.

Q 3: Ans:

Step 1: Login as Orgadmin (Chachar2_orgadmin) -> under Product -> Folders -> create a New Part -> here you will find all the Attributes populates which were added in Manage types attributes.

windchill Chachar2_orgadmin

Products -> product002

Folders (1 objects)

product002

Folder Contents All

Name	Number
0000000102	
0000000101	
0000000081	

(0 objects selected)

New Part

Set Attributes

Product: product002

* Type: Part Test

* Create as End Item: No

Part Attributes

Number: (Generated)

* Name: Part Test

* Assembly Mode: Separable

* Source: Make

View: Design

* Default Trace Code: Untraced

* Default Unit: each

* Gathering Part: No

* Life Cycle Template: (Generated)

Team Template: (Generated)

* Location: Autoselect Folder (/product002)

Select Folder (/product002)

PARTCLASSIFICATION: partClassification

IS_DRAWING: Undefined

RELEASE_DATE: 2024-10-17

HEIGHT: 5

☐ Create CAD Document

☐ Keep checked out after checkin

* Indicates required fields.

Back Next Finish Cancel

4. Create SQL query for joins as well:

- a. From StringDefinition join StringValue join WTPartMaster join WTPart
- b. From booleanDefinition join booleanValue join WTPartMaster join WTPart
- c. From integerDefinition join integerValue join WTPartMaster join WTPart
- d. From timestampDefinition join timestampValue join WTPartMaster join WTPart

Q 4.a) From StringDefinition join StringValue join WTPartMaster join WTPart

Ans:

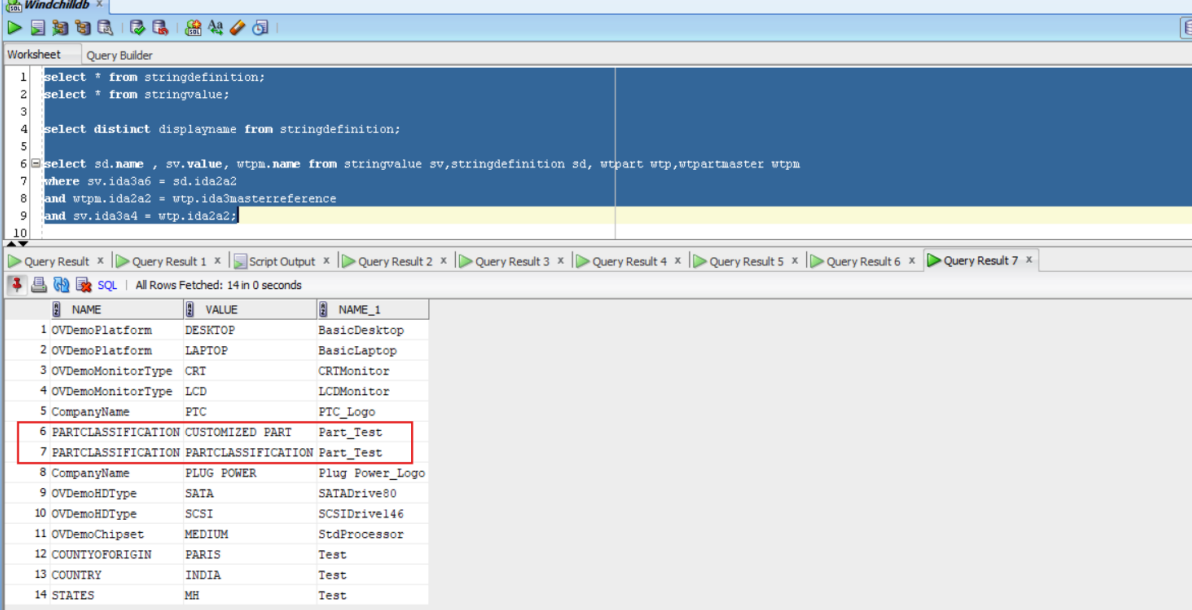
Run the below query in SQL Database:

```
select * from stringdefinition;
```

```
select * from stringvalue;
```

```
select distinct displayname from stringdefinition;
```

```
select sd.name , sv.value, wtpm.name from stringvalue sv,stringdefinition sd, wtpart  
wtp,wtpartmaster wtpm  
where sv.id3a6 = sd.id2a2  
and wtpm.id2a2 = wtp.id3masterreference  
and sv.id3a4 = wtp.id2a2;
```



	NAME	VALUE	NAME_1
1	OVDemoPlatform	DESKTOP	BasicDesktop
2	OVDemoPlatform	LAPTOP	BasicLaptop
3	OVDemoMonitorType	CRT	CRTMonitor
4	OVDemoMonitorType	LCD	LCDMonitor
5	CompanyName	PTC	PTC_Logo
6	PARTCLASSIFICATION	CUSTOMIZED PART	Part_Test
7	PARTCLASSIFICATION	PARTCLASSIFICATION	Part_Test
8	CompanyName	PLUG POWER	Plug Power_Logo
9	OVDemoHDIType	SATA	SATADrive80
10	OVDemoHDIType	SCSI	SCSIDrive146
11	OVDemoChipset	MEDIUM	StdProcessor
12	COUNTRYOFORIGIN	PARIS	Test
13	COUNTRY	INDIA	Test
14	STATES	MH	Test

And if ask the WTPARTNUMBER, VALUE, NAME run the below query,

```
select sd.name, sv.value, wtpm.wtpartnumber
```

```
from stringvalue sv, stringdefinition sd, wtpart wtp, wtpartmaster wtpm
```

```
where sv.id3a6 = sd.id2a2
```

```
and wtpm.id2a2 = wtp.id3masterreference
```

```
and sv.id3a4 = wtp.id2a2;
```

The screenshot shows the Windchill database interface with a SQL query entered in the Query Builder. The query is as follows:

```

10
11 select sd.name, sv.value, wtpm.wtpartnumber
12 from stringvalue sv, stringdefinition sd, wtpart wtp, wtpartmaster wtpm
13 where sv.ida3a6 = sd.ida2a2
14 and wtpm.ida2a2 = wtp.ida3masterreference
15 and sv.ida3a4 = wtp.ida2a2;
16
17
18
19

```

The results are displayed in a table with the following columns: NAME, VALUE, and WTPARTNUMBER. The results are as follows:

	NAME	VALUE	WTPARTNUMBER
1	COUNTRYOFORIGIN	PARIS	0000000102
2	COUNTRY	INDIA	0000000102
3	STATES	MH	0000000102
4	PARTCLASSIFICATION	CUSTOMIZED PART	0000000121
5	PARTCLASSIFICATION	PARTCLASSIFICATION	0000000121
6	CompanyName	PTC	D3_0000000121
7	CompanyName	PLUG POWER	D3_0000000122
8	OVDemoPlatform	DESKTOP	OVDemoVARBASICDESKTOP
9	OVDemoPlatform	LAPTOP	OVDemoVARBASICLAPTOP
10	OVDemoMonitorType	CRT	OVDemoVARCRTMONITOR
11	OVDemoMonitorType	LCD	OVDemoVARLCDMONITOR
12	OVDemoHDType	SATA	OVDemoVARSATADRIIVE00
13	OVDemoHDType	SCSI	OVDemoVARSCSIDRIIVE146
14	OVDemoChipset	MEDIUM	OVDemoVARSTDPROCESSOR

4.b) From booleanDefinition join booleanValue join WTPartMaster join WTPart

Ans:

Run the below query in SQL Database:

```
select * from booleandefinition;
```

```
select * from booleanvalue;
```

```
select bd.name , bv.value, wtpm.name from booleanvalue bv,booleandefinition bd, wtpart
```

```
wtp,wtpartmaster wtpm
```

```
where bv.ida3a6 = bd.ida2a2
```

```
and wtpm.ida2a2 = wtp.ida3masterreference
```

```
and bv.ida3a4 = wtp.ida2a2;
```

The screenshot shows the Windchill database interface with a SQL query entered in the Query Builder. The query is as follows:

```

16
17
18 select * from booleandefinition;
19 select * from booleanvalue;
20
21 select bd.name , bv.value, wtpm.name from booleanvalue bv,booleandefinition bd, wtpart wtp,wtpartmaster wtpm
22 where bv.ida3a6 = bd.ida2a2
23 and wtpm.ida2a2 = wtp.ida3masterreference
24 and bv.ida3a4 = wtp.ida2a2;
25

```

The results are displayed in a table with the following columns: NAME, VALUE, and NAME_1. The results are as follows:

	NAME	VALUE	NAME_1
1	IS_DRAWING	1	Part_Test
2	IS_DRAWING	1	Part_Test

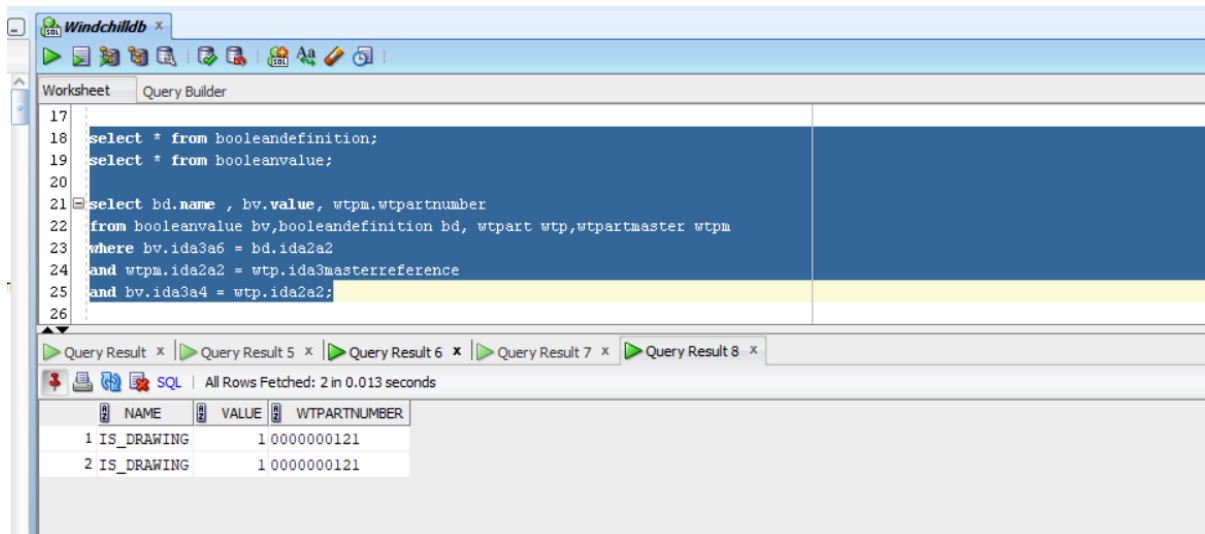
And if ask the WTPARTNUMBER, VALUE, NAME run the below query,

```
select * from booleandefinition;
```

```
select * from booleanvalue;
```

```
select bd.name , bv.value, wtpm.wtpartnumber
```


from booleanvalue bv,booleandefinition bd, wtpart wtp,wtpartmaster wtpm
 where bv.ida3a6 = bd.ida2a2
 and wtpm.ida2a2 = wtp.ida3masterreference
 and bv.ida3a4 = wtp.ida2a2;



Q 4.c) From integerDefinition join integerValue join WTPartMaster join WTPart:

Ans:

Run the below query in SQL Database:

```

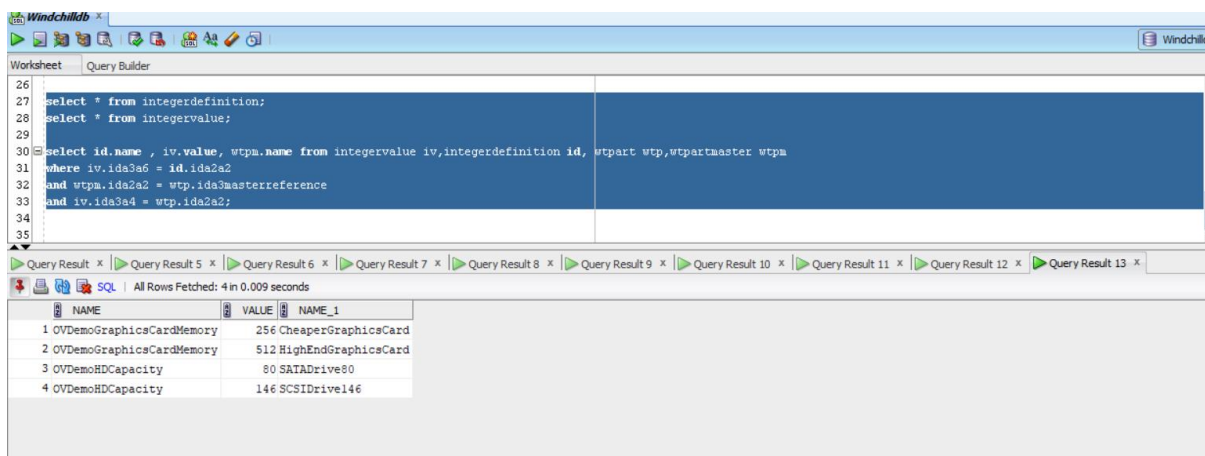
select * from integerdefinition;
select * from integerValue;

```

```

select id.name , iv.value, wtpm.name from integerValue iv,integerdefinition id, wtpart
wtp,wtpartmaster wtpm
where iv.ida3a6 = id.ida2a2
and wtpm.ida2a2 = wtp.ida3masterreference
and iv.ida3a4 = wtp.ida2a2;

```



And if ask the WTPARTNUMBER, VALUE, NAME run the below query,

```

select * from integerdefinition;
select * from integerValue;
select id.name , iv.value, wtpm.wtpartnumber from integerValue iv,integerdefinition id, wtpart wtp,

```

wtpartmaster wtpm
 where iv.ida3a6 = id.ida2a2
 and wtpm.ida2a2 = wtp.ida3masterreference
 and iv.ida3a4 = wtp.ida2a2;

The screenshot shows a SQL query in the Windchill database interface. The query is as follows:

```

select * from integerdefinition;
select * from integervalue;
select id.name , iv.value, wtpm.wtpartnumber from integervalue iv, integerdefinition id, wtpart wtp, wtpartmaster wtpm
where iv.ida3a6 = id.ida2a2
and wtpm.ida2a2 = wtp.ida3masterreference
and iv.ida3a4 = wtp.ida2a2;
  
```

The query results are displayed in a table with 4 rows and 3 columns: NAME, VALUE, and WTPARTNUMBER.

	NAME	VALUE	WTPARTNUMBER
1	OVDemoGraphicsCardMemory	512	OVDEMOVARHIGHENDGRAPHICSCARD
2	OVDemoGraphicsCardMemory	256	OVDEMOVARCHEAPERGRAPHICSCARD
3	OVDemoHDCapacity	146	OVDEMOVARSCSIDRIVE146
4	OVDemoHDCapacity	80	OVDEMOVARSATDRIVE80

Q 4.d) From timestampDefinition join timestampValue join WTPartMaster join WTPart

Ans:

Run the below query in SQL Database:

select * from timestampdefinition;
 select * from timestampvalue;
 select * from wtpart;
 select * from wtpartmaster;

select td.name, tv.value, wtpm.name from timestampvalue tv, timestampdefinition td, wtpart wtp,
 wtpartmaster wtpm
 where tv.ida3a6 = td.ida2a2
 and wtpm.ida2a2 = wtp.ida3masterreference
 and tv.ida3a4 = wtp.ida2a2;

The screenshot shows a SQL query in the Windchill database interface. The query is as follows:

```

select * from timestampdefinition;
select * from timestampvalue;
select * from wtpart;
select * from wtpartmaster;
select td.name, tv.value, wtpm.name from timestampvalue tv, timestampdefinition td, wtpart wtp, wtpartmaster wtpm
where tv.ida3a6 = td.ida2a2
and wtpm.ida2a2 = wtp.ida3masterreference
and tv.ida3a4 = wtp.ida2a2;
  
```

The query results are displayed in a table with 3 rows and 3 columns: NAME, VALUE, and NAME_1.

	NAME	VALUE	NAME_1
1	ISSUEDATE	10-10-24	Test
2	RELEASE_DATE	16-10-24	Part_Test
3	RELEASE_DATE	16-10-24	Part_Test

And if ask the WTPARTNUMBER, VALUE, NAME run the below query,

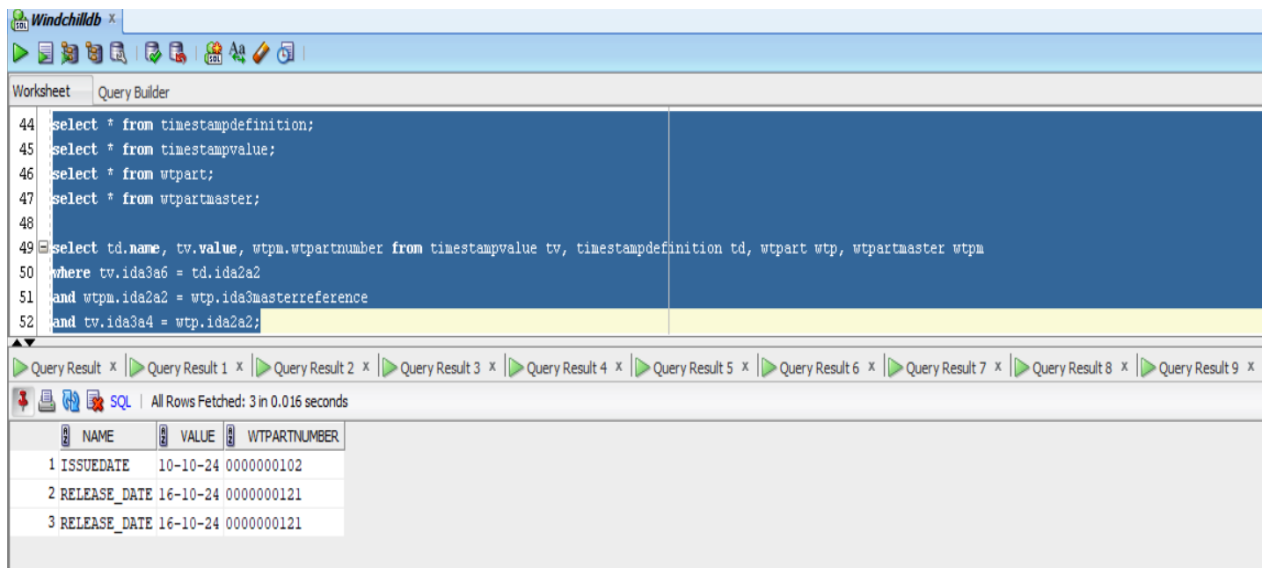
```
select * from timestampdefinition;
```

```
select * from timestampvalue;
```

```
select * from wtpart;
```

```
select * from wtpartmaster;
```

```
select td.name, tv.value, wtpm.wtpartnumber from timestampvalue tv, timestampdefinition td,  
wtpart wtp, wtpartmaster wtpm  
where tv.ida3a6 = td.ida2a2  
and wtpm.ida2a2 = wtp.ida3masterreference  
and tv.ida3a4 = wtp.ida2a2;
```



The screenshot shows the Windchill database interface. The query builder window displays the following SQL query:

```
select * from timestampdefinition;  
select * from timestampvalue;  
select * from wtpart;  
select * from wtpartmaster;  
  
select td.name, tv.value, wtpm.wtpartnumber from timestampvalue tv, timestampdefinition td, wtpart wtp, wtpartmaster wtpm  
where tv.ida3a6 = td.ida2a2  
and wtpm.ida2a2 = wtp.ida3masterreference  
and tv.ida3a4 = wtp.ida2a2;
```

The query results are displayed in a table with 3 rows and 3 columns: NAME, VALUE, and WTPARTNUMBER.

	NAME	VALUE	WTPARTNUMBER
1	ISSUEDATE	10-10-24	0000000102
2	RELEASE_DATE	16-10-24	0000000121
3	RELEASE_DATE	16-10-24	0000000121