

Assignment Five:

1. Create Four global attribute (Data Type)

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

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

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

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

Solution:

1. Create Four global attribute (Data Type)

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

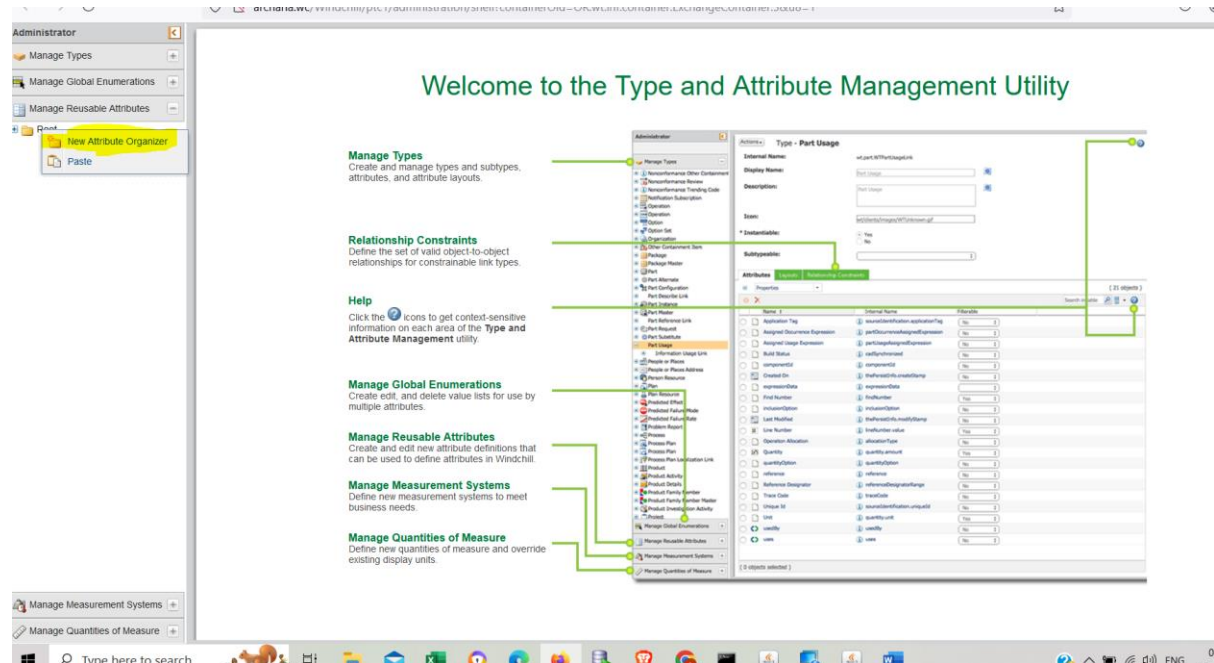
Step1: login as a site admin->utility->business administration->type and Attribute Management.

The page appears shown below

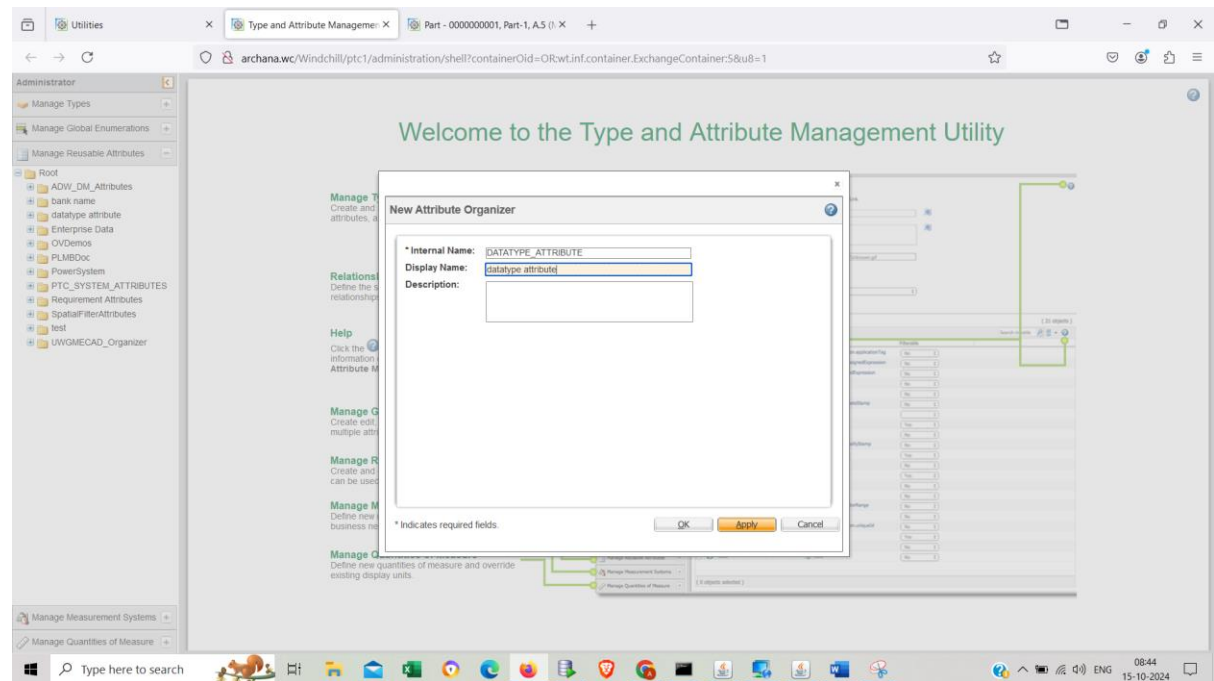
The screenshot shows the 'Type and Attribute Management Utility' interface. The sidebar on the left contains navigation links: Administrator, Manage Types, Manage Global Enumerations, Manage Reusable Attributes, Manage Measurement Systems, and Manage Quantities of Measure. The main content area has a green header 'Welcome to the Type and Attribute Management Utility'. Below this, there are sections for 'Manage Types', 'Relationship Constraints', 'Help', 'Manage Global Enumerations', 'Manage Reusable Attributes', 'Manage Measurement Systems', and 'Manage Quantities of Measure'. A tree view on the right shows the 'Part' object structure. A 'Part Usage' dialog is open, displaying a table of attributes and their values.

Attribute	Value
partClassification	partClassification
isDrawing	isDrawing
releaseDate	releaseDate
height	height

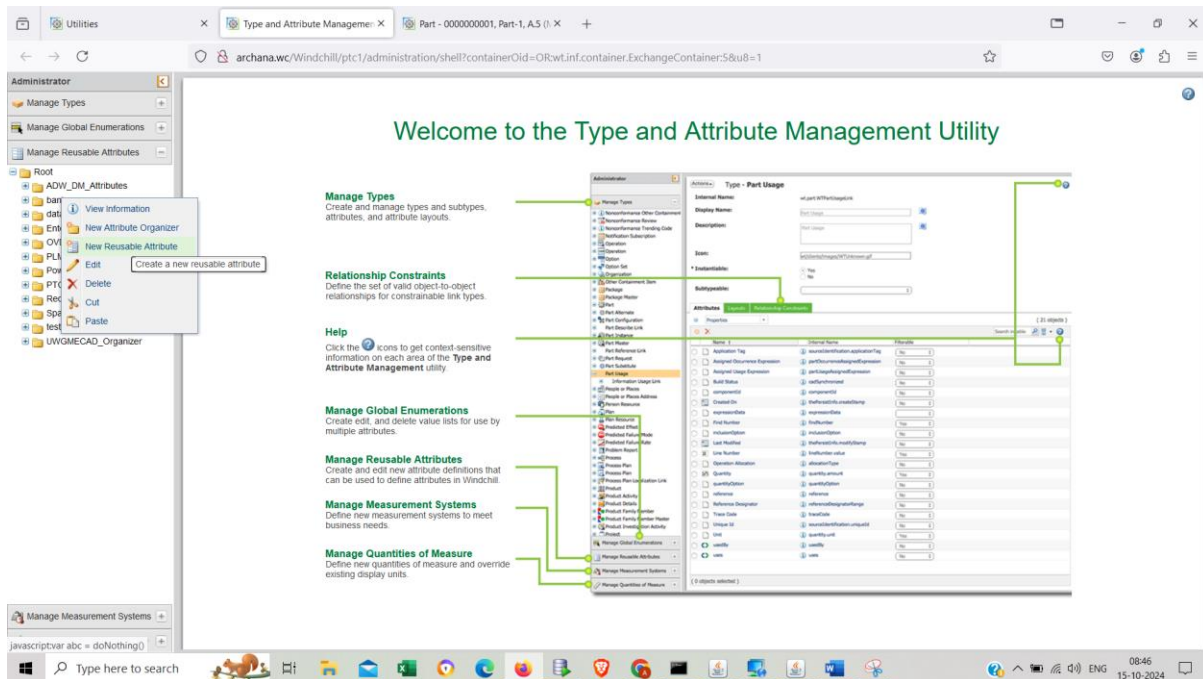
Step2: select Manage Reusable Attributes->root->r/c->New Attribute organizer.



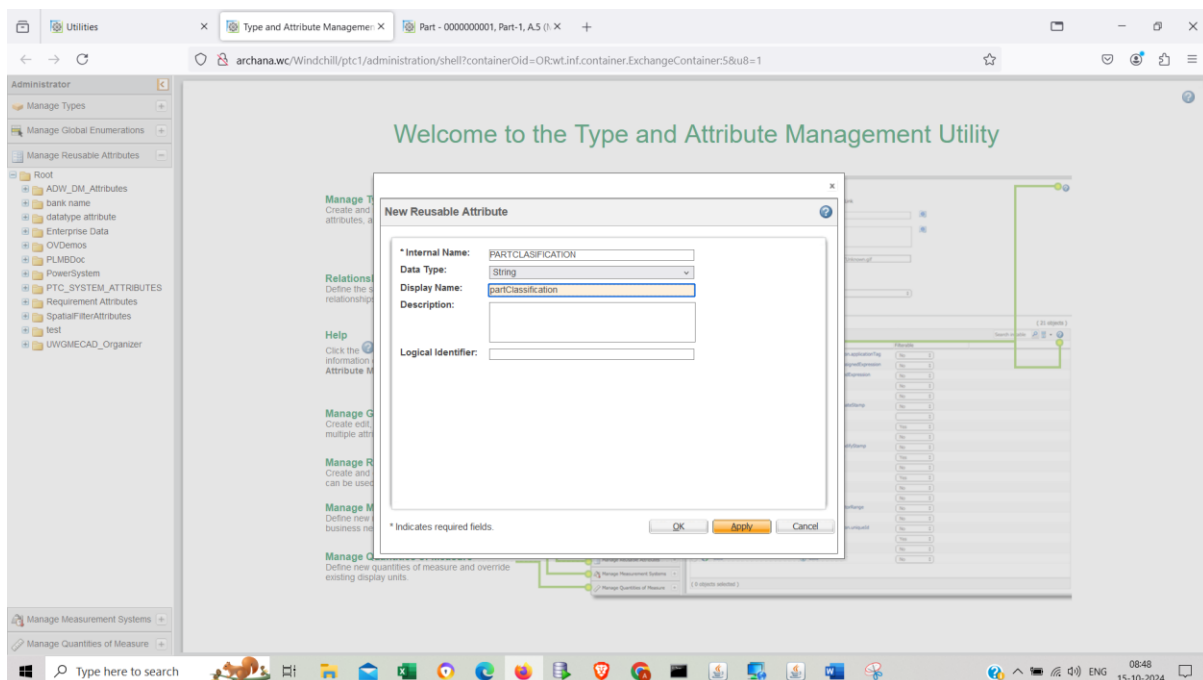
Step3: fill required fields as shown below->Apply (it create a folder).



Step4: r/c on newly created folder (datatype attribute)-> New reusable Attribute



Step5: fill appropriate fields as shown below (name: partClassification, datatype: string (it create global reusable attributes))->apply.

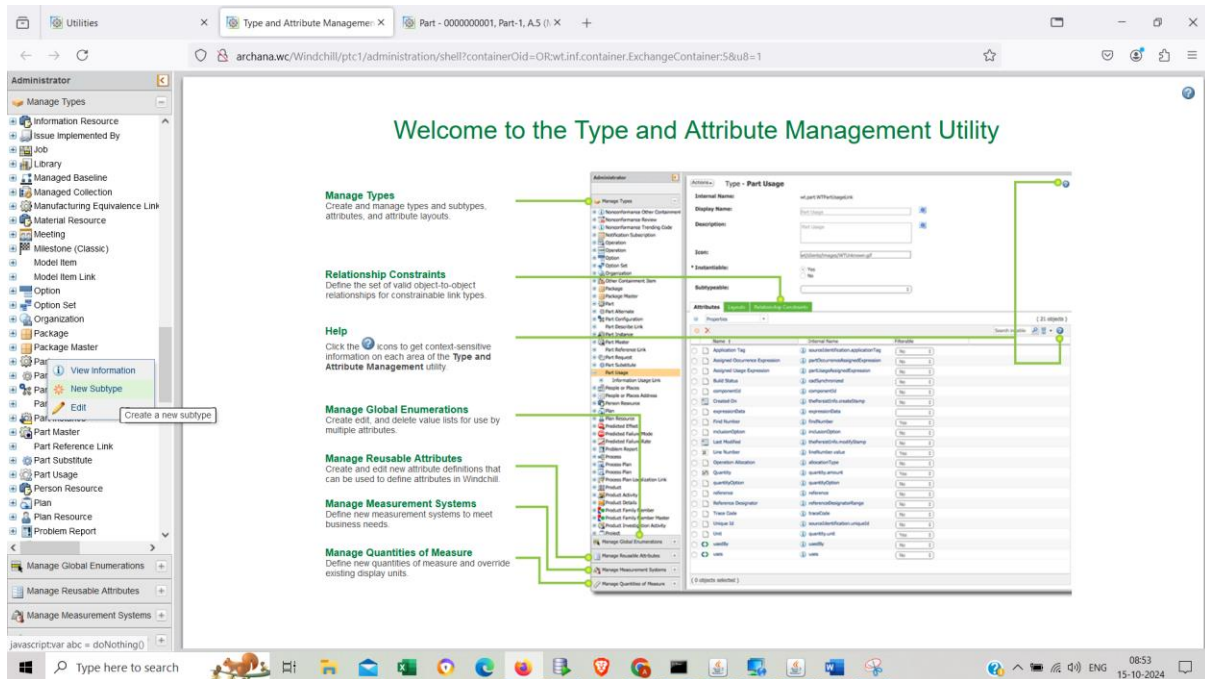


Step6: create global reusable attributes for remaining

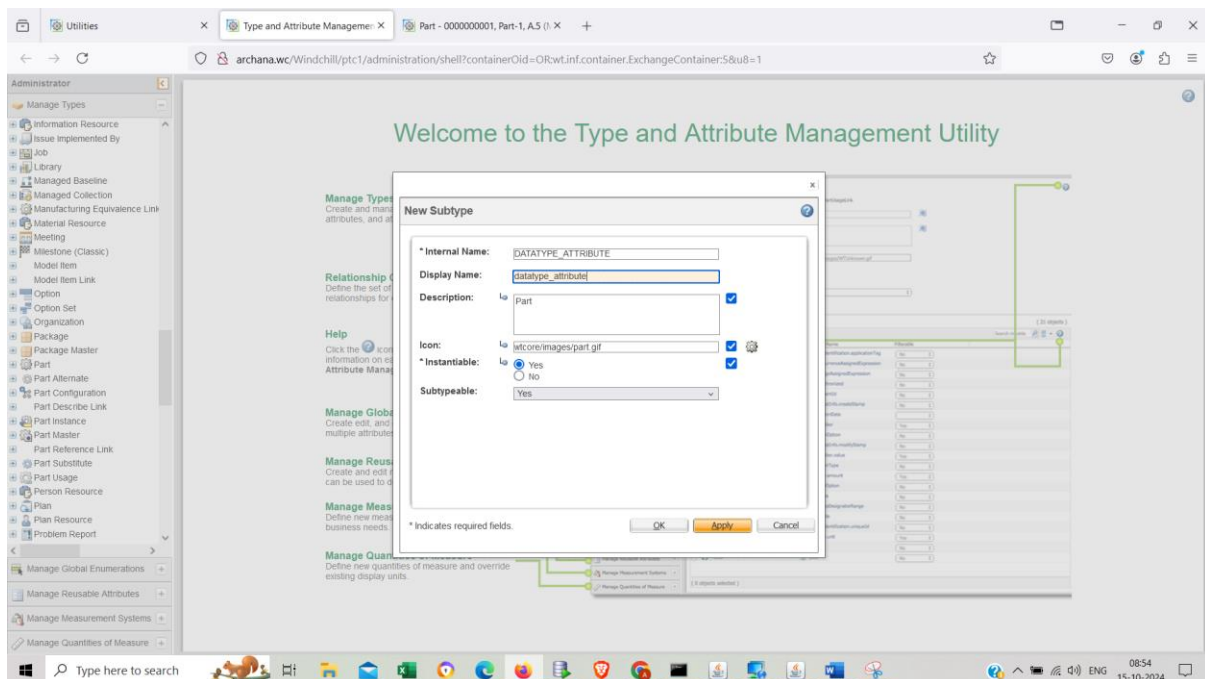
- b. isDrawing (Boolean)
- c. releaseDate (DateAndTime)
- d. height (real number)

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

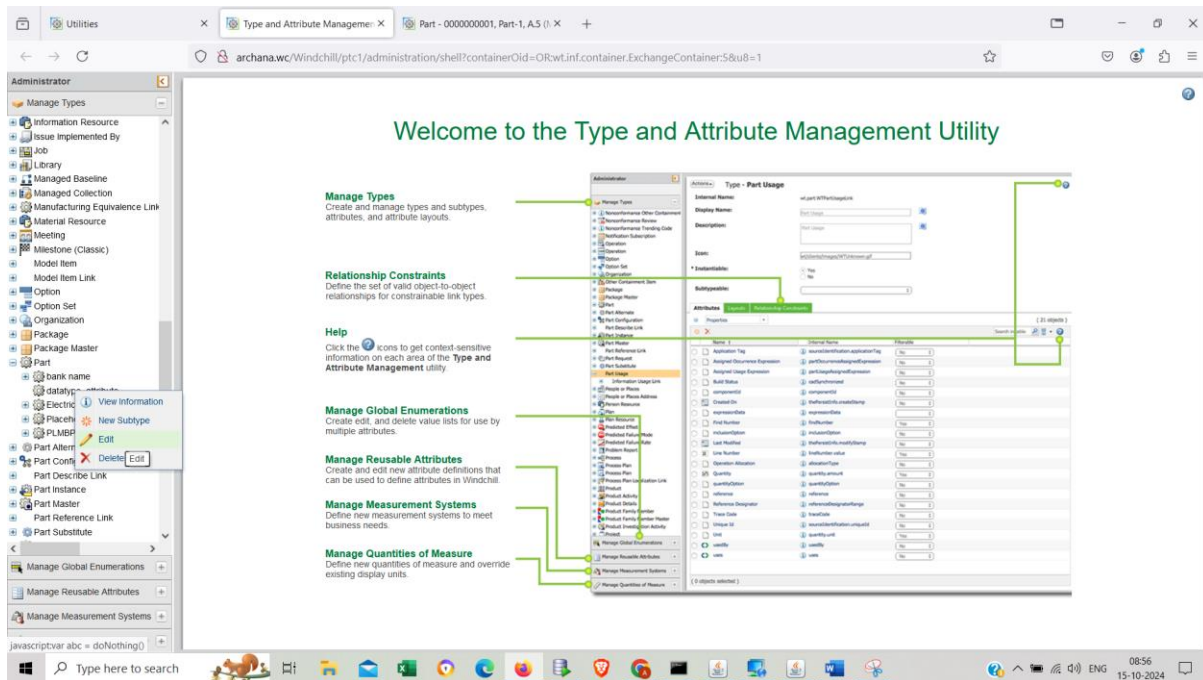
Step1: choose Manage type->part->r/c->New subtype



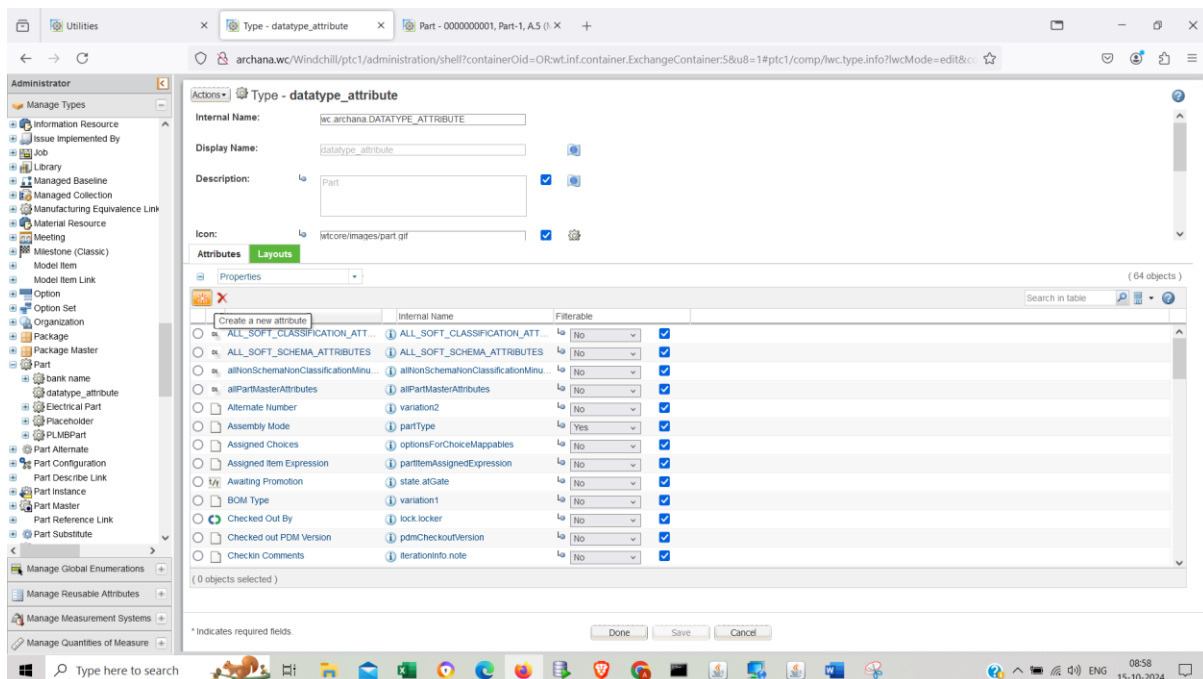
Step2: fill appropriate fields as shown in below->Apply (it creates a new subtype under WTPart).



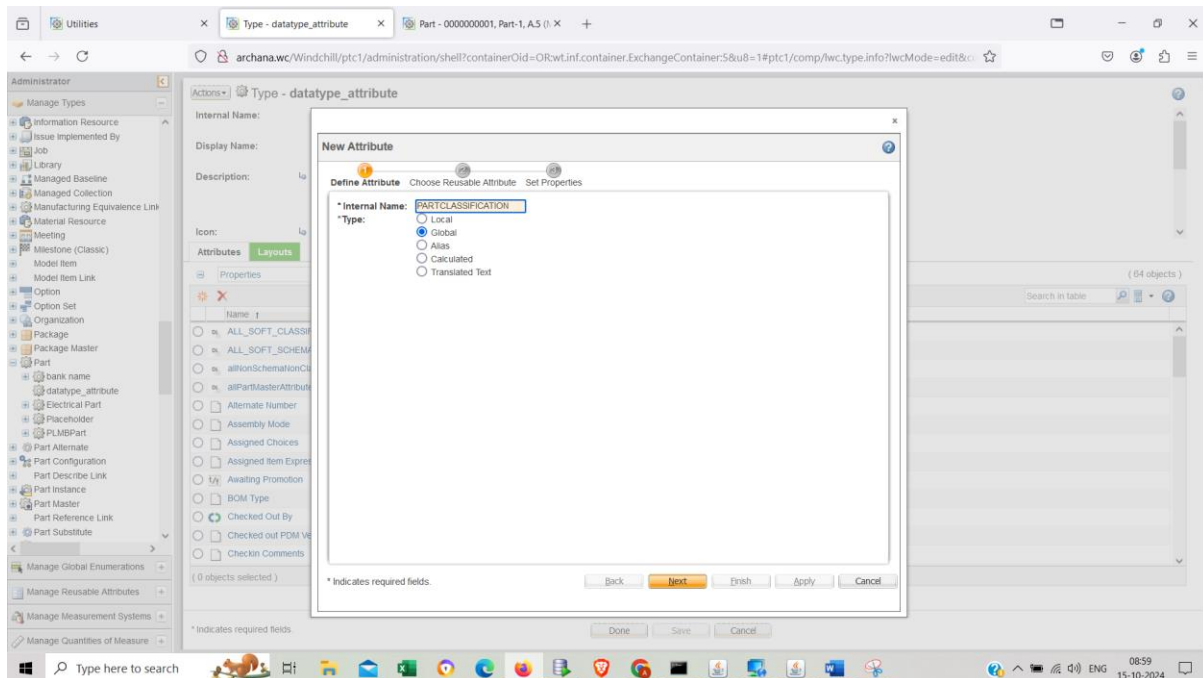
Step3: r/c on newly created subtype(datatype_attribute)->Edit



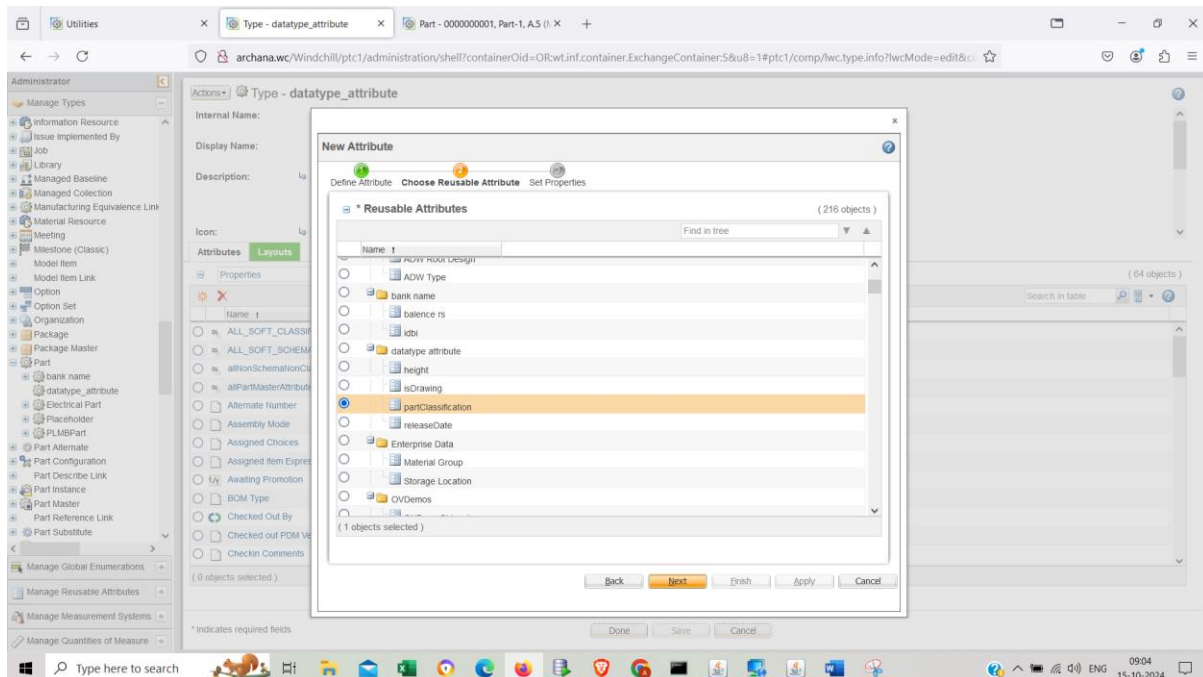
Step4: choose create new attribute as shown below.



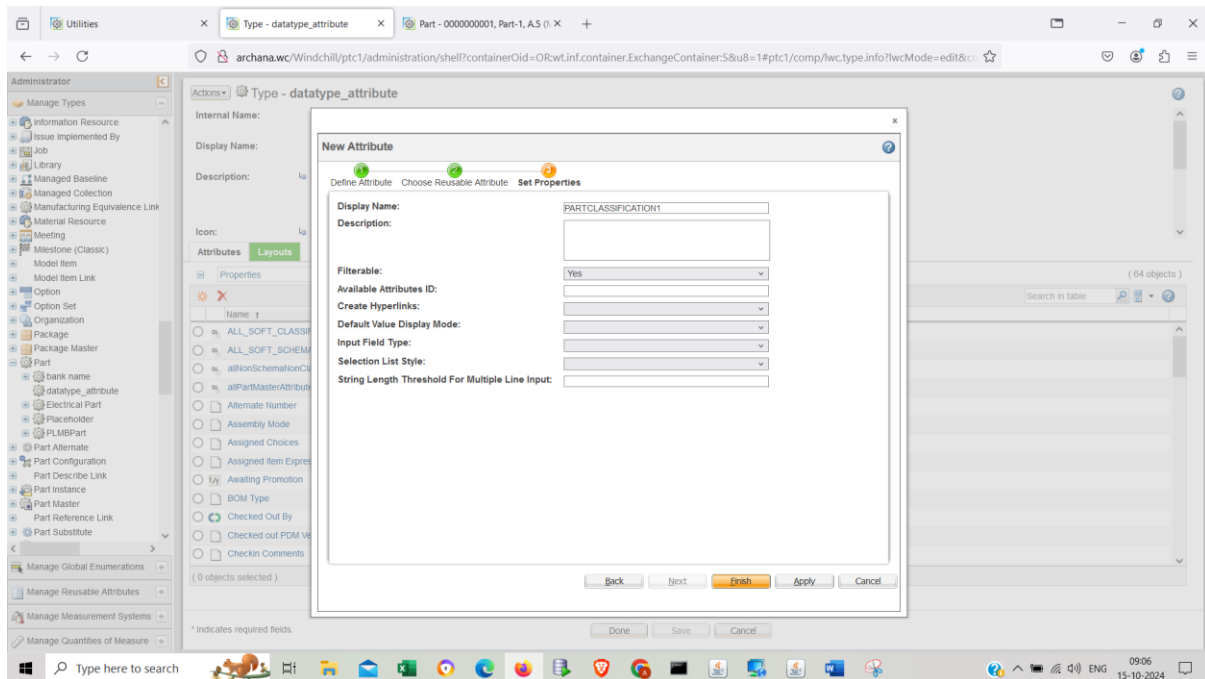
Step5: fill fields internal name: PARTCLASIFFICATION, type: Global->Next.



Step6: choose appropriate folder we created in Manage Resuable Attribute->select Attribute(partClasification)->Next.



Step7: fill the relevant fields ->Finish

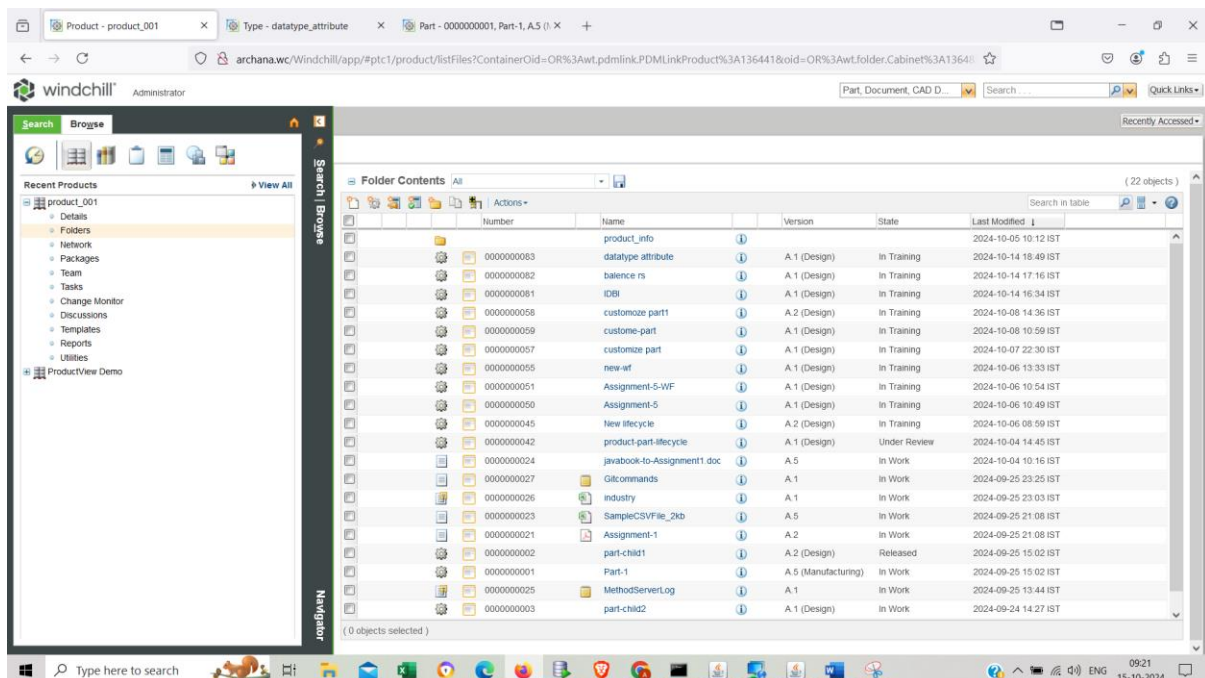


Step8: follow above step3 to step7 for the remaining attributes

- b. isDrawing (Boolean)
- c. releaseDate (DateAndTime)
- d. height (real number)

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

Step1: go to product->folders->create new part-> choose customized subtype part(datatype_attribute).



Windows taskbar shows open applications: Folders, Type - datatype_attribute, Part - 000000001, Part-1, A.5 (1) X +.

Windchill Administrator interface. URL: archana.wc/Windchill/app/#ptc1/product/listFiles?ContainerOid=OR%3Awt.pdmLink.PDMLinkProduct%3A136441&oid=OR%3Awt.folder.Cabinet%3A136441. Search bar: Part, Document, CAD D... Quick Links.

Products > product_001

Actions | Product - product_001

Folders (2 objects): product_001, product_info

Folder Contents (22 objects)

Name	Number	Version	State	Last Modified
product_info				2024-10-05 10:12 IST
datatype_attribute	0000000083	A.1 (Design)	In Training	2024-10-14 18:49 IST
balance rs	0000000082	A.1 (Design)	In Training	2024-10-14 17:16 IST
IDBI	0000000081	A.1 (Design)	In Training	2024-10-14 16:34 IST
customize part1	0000000058	A.2 (Design)	In Training	2024-10-08 14:36 IST
customize part	0000000059	A.1 (Design)	In Training	2024-10-08 10:59 IST
new-af	0000000057	A.1 (Design)	In Training	2024-10-07 22:30 IST
Assignment-S-WF	0000000055	A.1 (Design)	In Training	2024-10-06 13:33 IST
Assignment-5	0000000051	A.1 (Design)	In Training	2024-10-06 10:54 IST
New lifecycle	0000000050	A.1 (Design)	In Training	2024-10-06 10:49 IST
product-part-lifecycle	0000000045	A.2 (Design)	In Training	2024-10-06 08:59 IST
javaBook-to-Assignment1.doc	0000000042	A.1 (Design)	Under Review	2024-10-04 14:45 IST
Gitcommands	0000000024	A.5	In Work	2024-10-04 10:16 IST
industry	0000000027	A.1	In Work	2024-09-25 23:25 IST
SampleCSVFile_2kb	0000000026	A.1	In Work	2024-09-25 23:03 IST
Assignment-1	0000000023	A.5	In Work	2024-09-25 21:08 IST
part-child1	0000000021	A.2	In Work	2024-09-25 21:08 IST
part-child2	0000000002	A.2 (Design)	Released	2024-09-25 15:02 IST
Part-1	0000000001	A.5 (Manufacturing)	In Work	2024-09-25 15:02 IST
MethodServerLog	0000000025	A.1	In Work	2024-09-25 13:44 IST
part-child2	0000000003	A.1 (Design)	In Work	2024-09-24 14:27 IST

Windows taskbar shows open applications: Folders, Type - datatype_attribute, New Part - Mozilla Firefox.

Windchill Administrator interface. URL: archana.wc/Windchill/app/#ptc1/product/listFiles?ContainerOid=OR%3Awt.pdmLink.PDMLinkProduct%3A136441&oid=OR%3Awt.folder.Cabinet%3A136441. Search bar: Document, CAD D... Quick Links.

Products > product_001

Actions | Product - product_001

Folders (2 objects): product_001, product_info

New Part Wizard dialog box:

Set Attributes

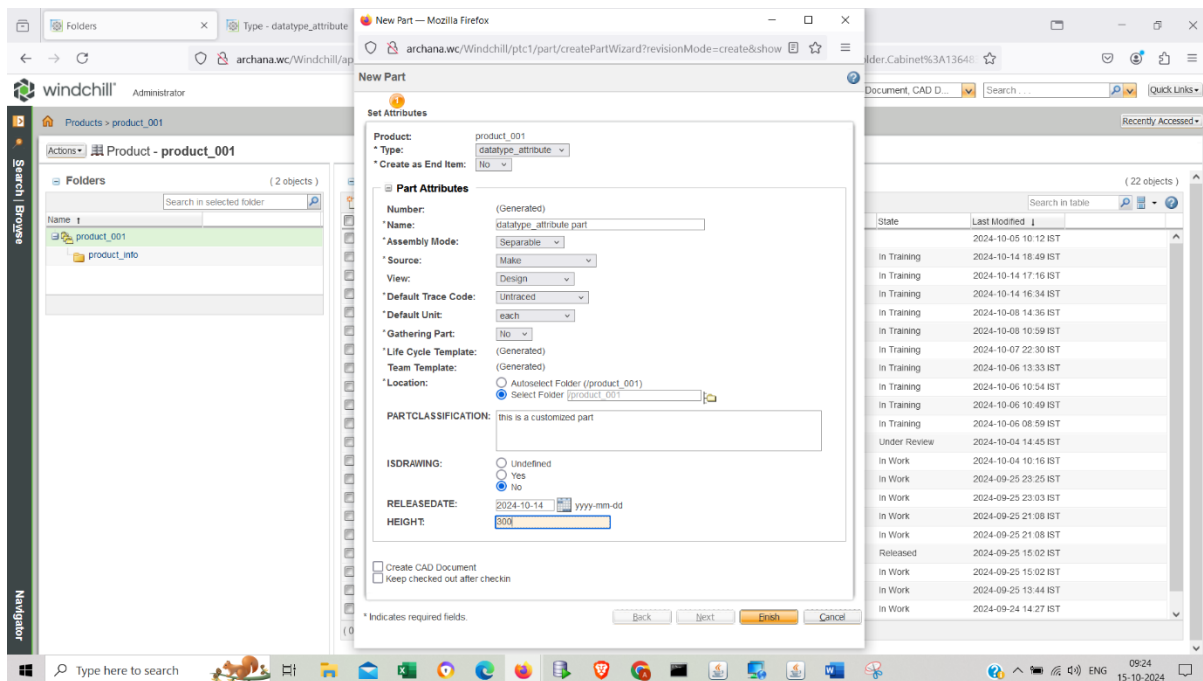
Product: product_001

Type: Select a Type --> datatype_attribute

Buttons: Back, Next, Finish, Cancel

* Indicates required fields.

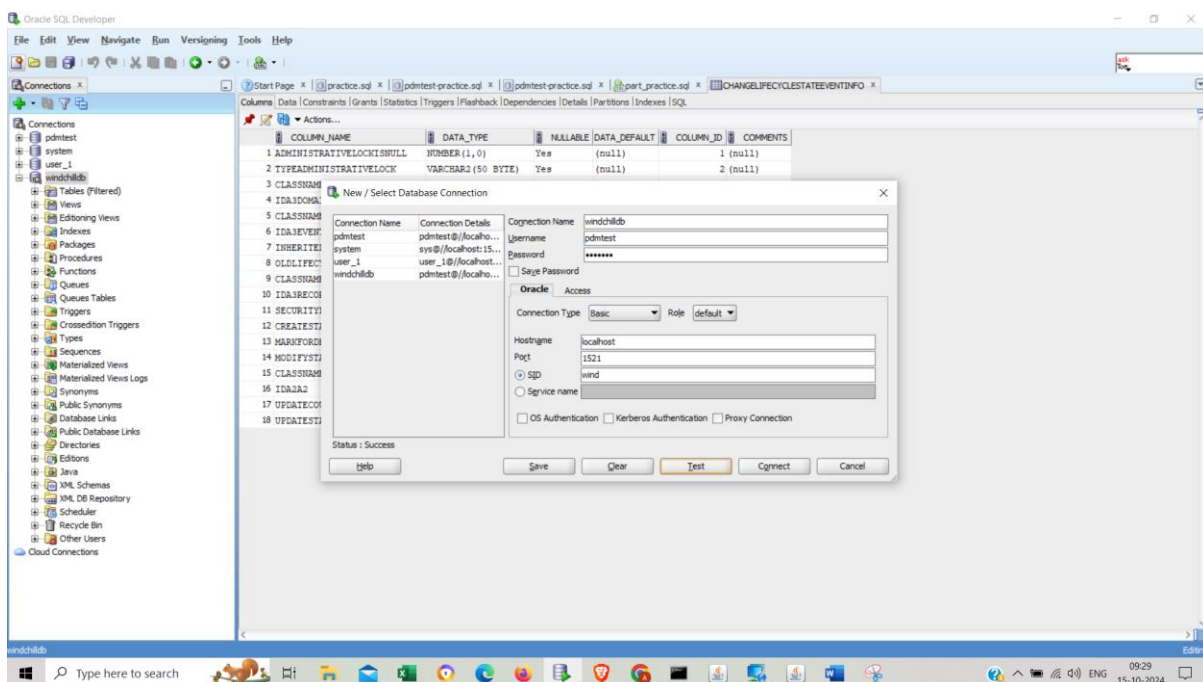
Step2: fill values in appropriate fields as shown below->Finish



4. Create SQL query for joins as well:

- From StringDefinition join StringValue join WTPartMaster join WTPart
- From booleanDefinition join booleanValue join WTPartMaster join WTPart
- From integerDefinition join integerValue join WTPartMaster join WTPart
- From timestampDefinition join timestampValue join WTPartMaster join WTPart

step1: go to SQL database ->select new-> fill as shown below



Step2: 4.a

```
select * from stringdefinition;
```

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

```
select * from stringvalue;
```

--4.a

```
select sd.name, sv.value, wtpm.name from stringvalue sv, stringdefinition sd, wtpart wtp,  
wtpartmaster wtpm
```

```
where sv.ida3a6 = sd.ida2a2
```

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

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

--4.a

```
select sd.name, sv.value, wtpm.name from stringvalue sv
```

```
join stringdefinition sd on sv.ida3a6 = sd.ida2a2
```

```
join wtpart wtp on sv.ida3a4 = wtp.ida2a2
```

```
join wtpartmaster wtpm on wtpm.ida2a2 = wtp.ida3masterreference;
```

step3: 4.b

--4.b

```
select * from booleandefinition;
```

```
select * from booleanvalue;
```

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

```
join booleandefinition bd on bv.ida3a6 = bd.ida2a2
```

```
join wtpart wtp on bv.ida3a4 = wtp.ida2a2
```

```
join wtpartmaster wtpm on wtpm.ida2a2 = wtp.ida3masterreference;
```

step4: 4.c

--4.c

```
select * from integervalue;
```

```
select * from integerdefinition;
```

```
select * from wtpart;
```

```
select * from wtpartmaster;
```

```
select id.name, iv.value , wtpm.name from integervalue iv
join integerdefinition id on iv.ida3a6 = id.ida2a2
join wtpart wtp on iv.ida3a4 = wtp.ida2a2
join wtpartmaster wtpm on wtpm.ida2a2 = wtp.ida3masterreference;
```

step5: 4.d

--4.d

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

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