

Windchill Assignment 8:

Maneesh Assignment 6:

Write a SQL query to print below,

Child_Name, Child_Number, Parent_Name, Parent_Number, Parent_LifeCycleState,
Child_LifeCycleState,

Child_ContainerName, Parent_ContainerName

For

1. WTPartUsageLink

2. WTPartDescribeLink

3. WTDocumentUsageLink

Ans: To run the above queries in SQL, we need to create Part object first.

Steps as follows

Step 1: Login as Orgadmin (Chachar2_orgadmin) -> Product -> Folders -> Create a new Part -> Select type as Part -> Provide name: PART_LINKS -> Click on Finish then new part gets created.

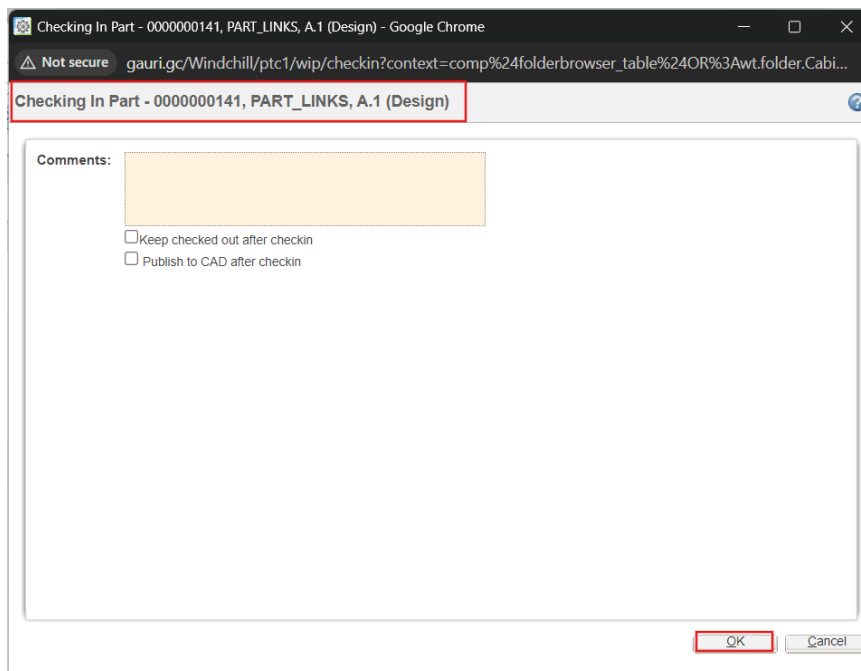
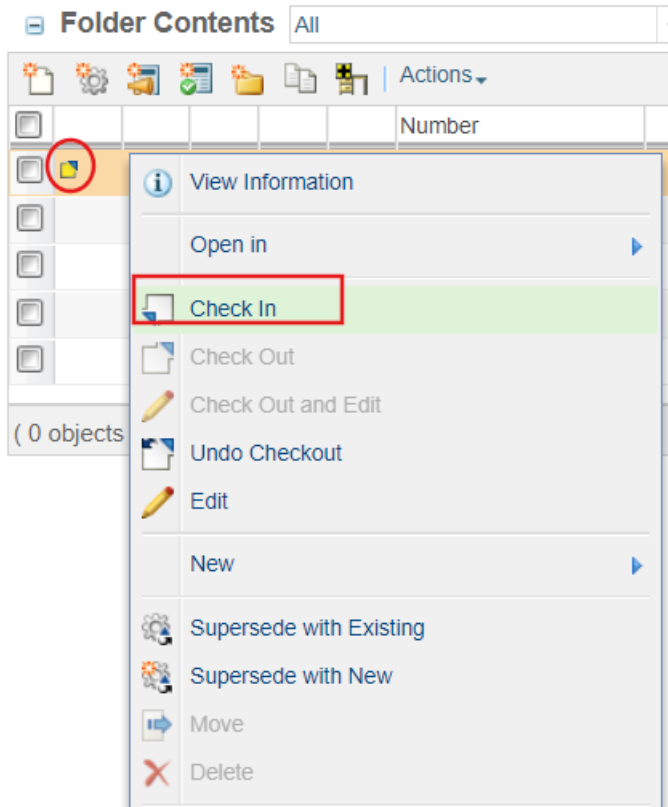
The screenshot displays the Windchill user interface. The top section shows the 'New Part' wizard with the following details:

- Product: product002
- Type: Part
- Create as End Item: No
- Part Attributes:
 - Number: (Generated)
 - Name: PART_LINKS
 - 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)
 - Supplier: (empty field)
- Buttons: Back, Next, Finish, Cancel

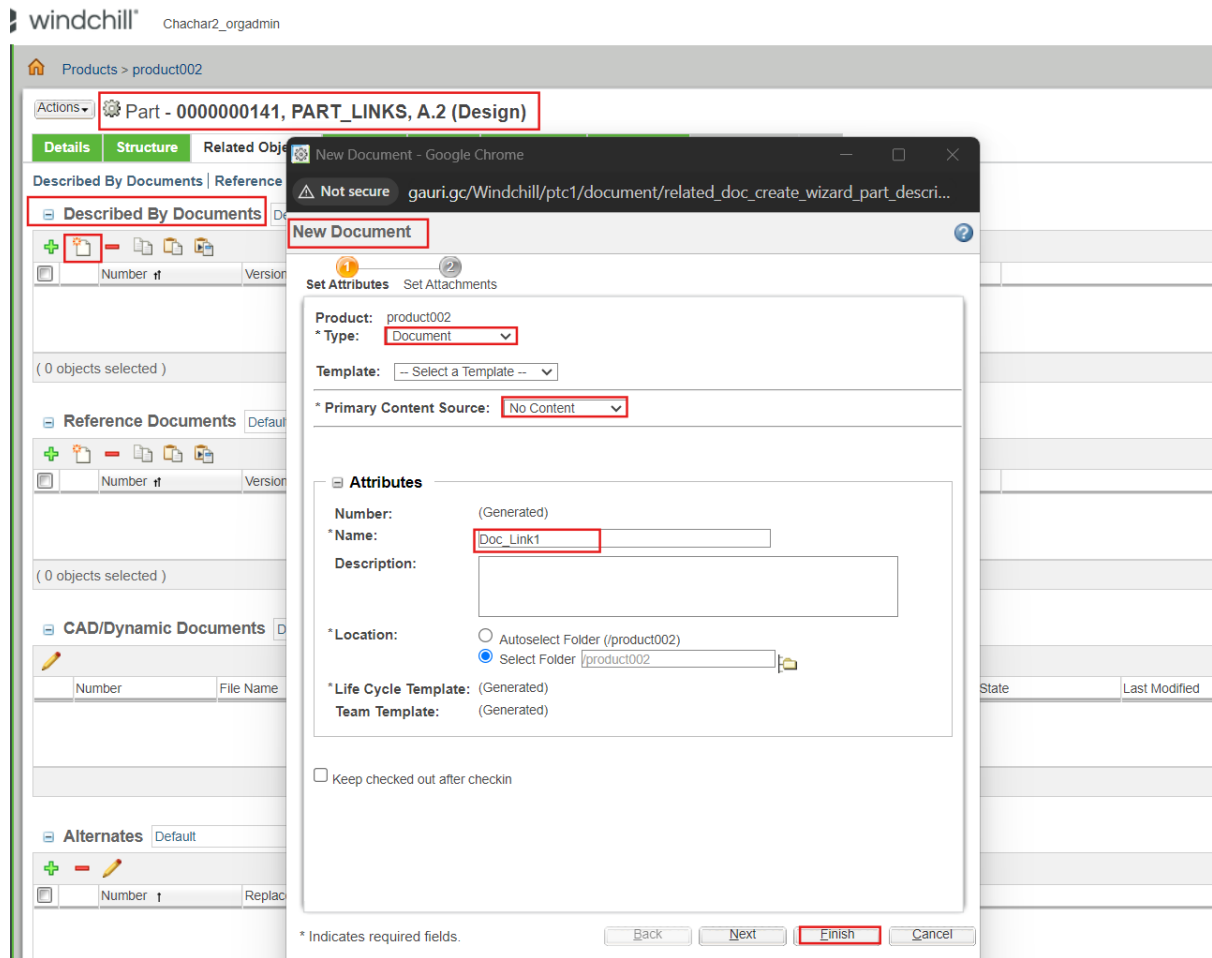
The bottom section shows the 'Folder Contents' table for the 'product002' folder:

Icon	Number	Name	Version	State	Life Cycle State
	0000000141	PART_LINKS	A.1 (Design)	In Training	2
	0000000121	Part_Test	A.2 (Design)	In Training	2
	0000000102	Test	A.1 (Design)	In Training	2
	0000000101	PLMBPart	A.2 (Design)	In Training	2
	0000000081	Part WF	A.1 (Design)	In Training	2

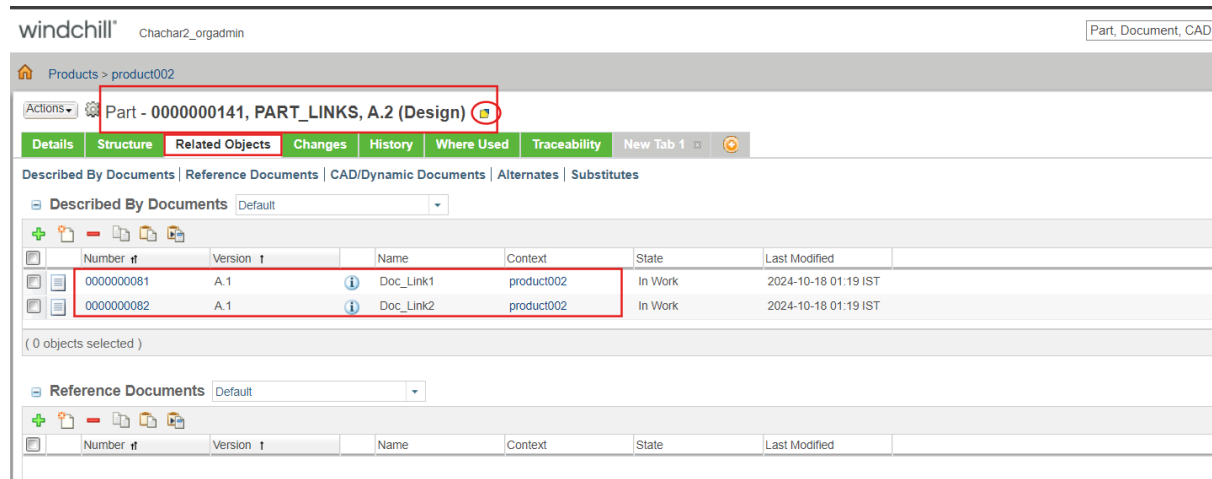
Now check in the part to save it.



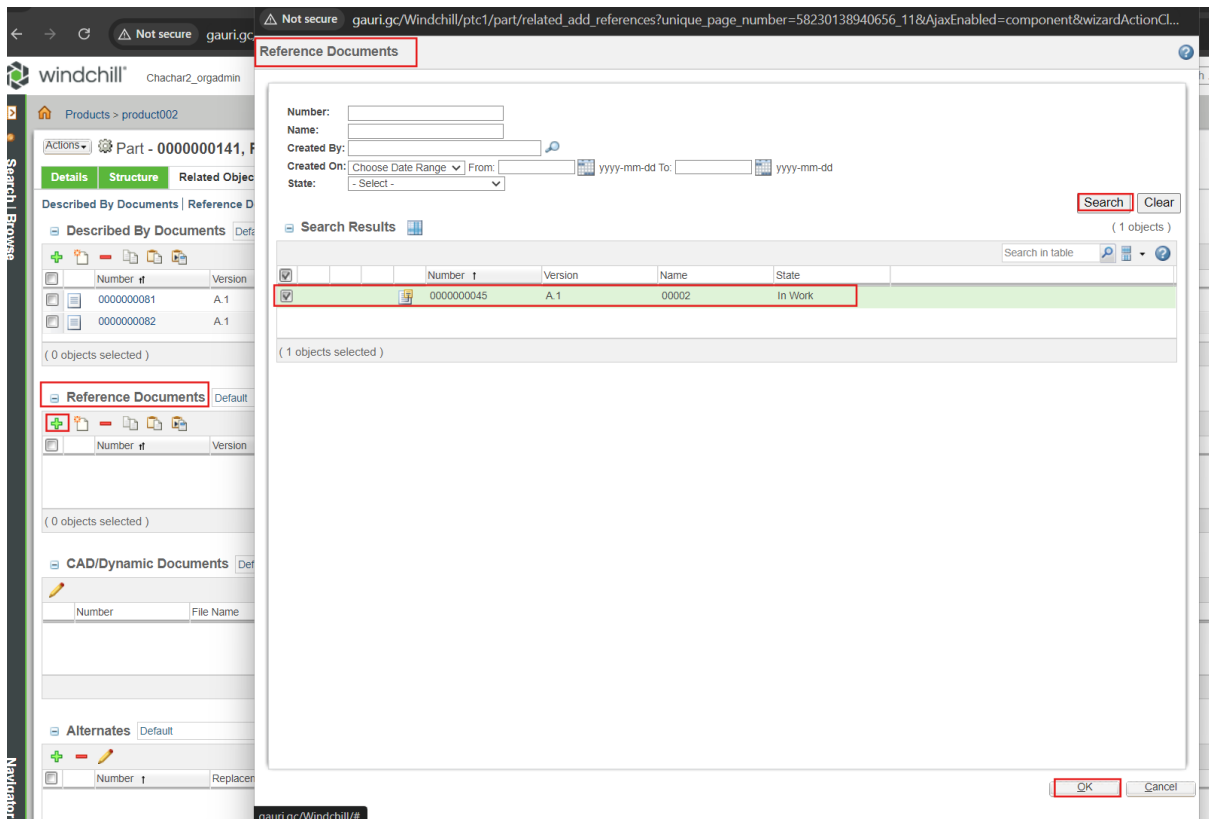
Step 2: Now view the Part which we have created -> under Related Object -> under Described by Document add the New Document -> Select type as Document -> Primary Content Source -> No Content -> Give Name as per your requirements (Doc_Link1) -> Click on Finish.



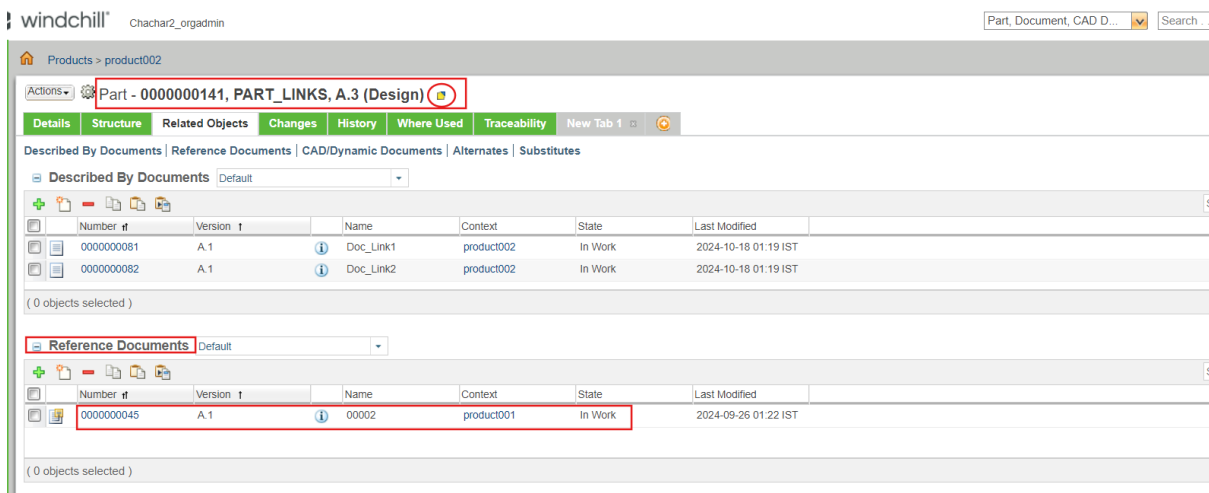
You will see the Document gets added under Described by Document tab -> Check in.



Step 3: Now add the Reference document to run the WTPARTreferencelink query,
Click on + sign add existing document -> click on search -> you will find one Doc -> select it -> click on Okay.

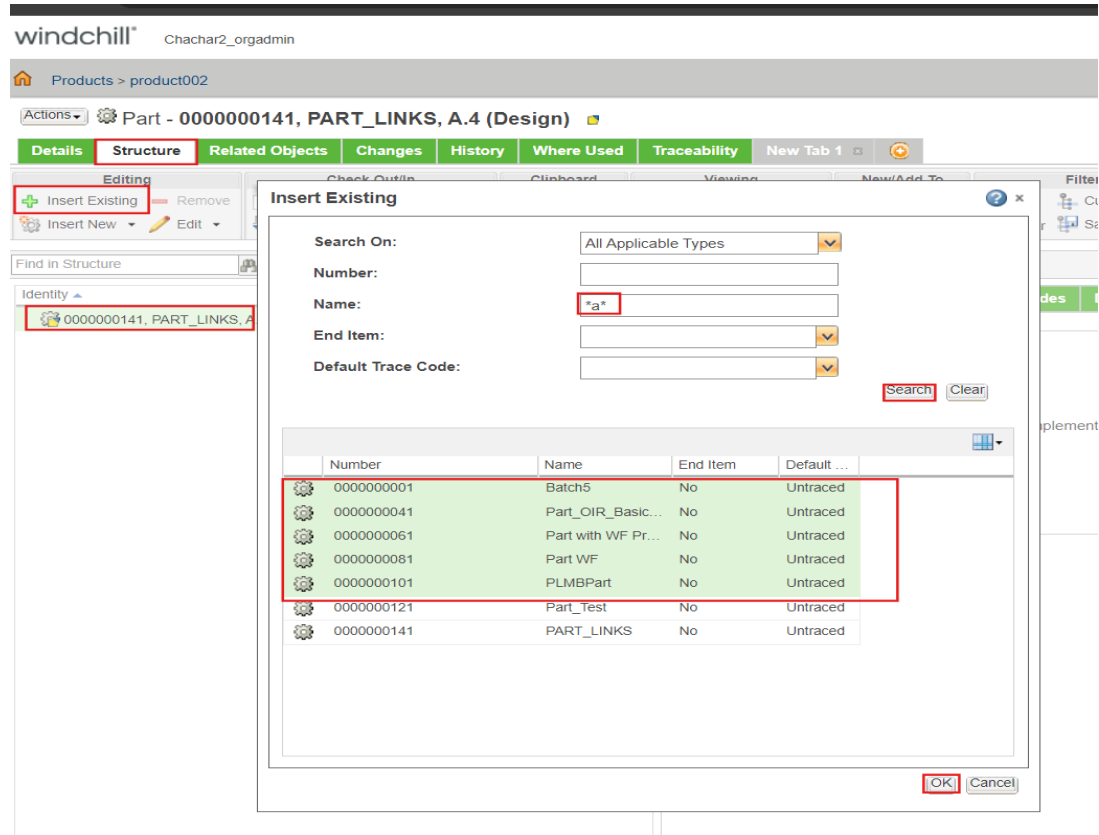


You will find the reference Documents gets added in below screenshot.

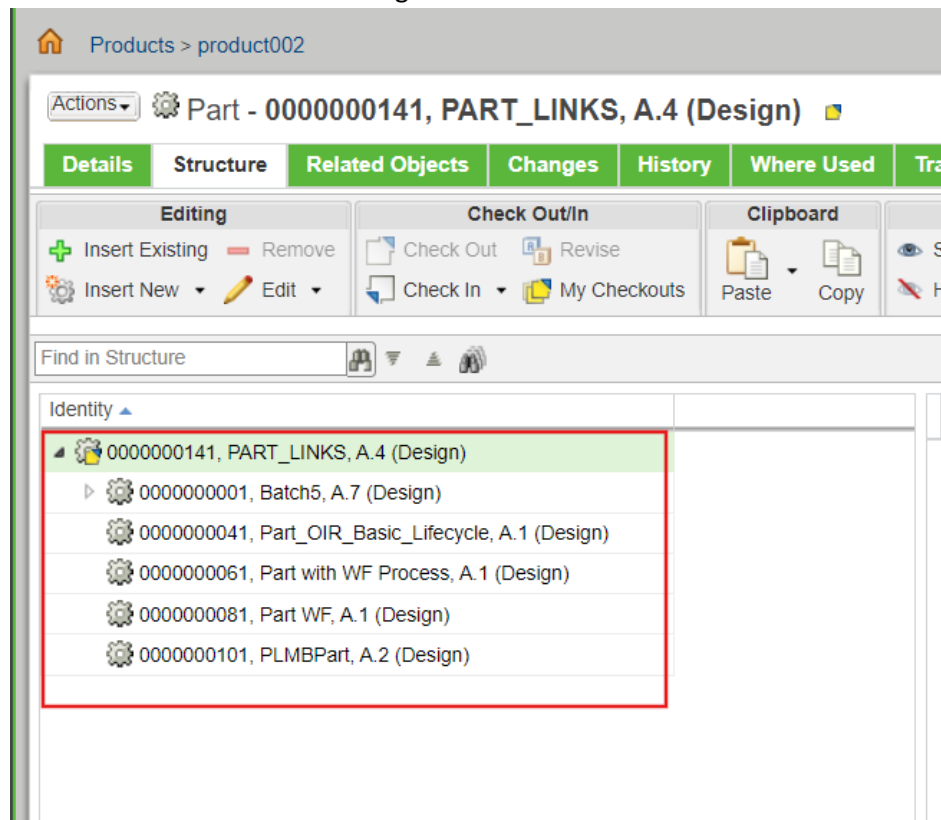


For Usagelink:

Go to Structure of the part -> Click on Insert Existing -> Search name by giving *a* -> click on search button -> you will find the Parts -> Shift + select 4-5 rows -> click ok.



You will see Parent Child Level 1 gets created in below screenshot



Similarly create Level 2 & Level 3 by adding few more child under Parents as below,

Products > product002

Actions Part - 0000000141, PART_LINKS, A.4 (Design)

Details Structure Related Objects Changes History Where Used Traceability New Tab 1

Editing: Insert Existing, Remove, Check Out, Revise, Insert New, Edit, Check In, My Checkouts, Clipboard, Paste, Viewing, Show, Views, New/Add To, Filter, Current Filter, Tools

Find in Structure

Identity

- 0000000141, PART_LINKS, A.4 (Design)
 - 0000000001, Batch5, A.7 (Design)
 - 0000000041, Part_OIR_Basic_Lifecycle, A.1 (Design)
 - 0000000061, Part with WF Process, A.1 (Design)
 - 0000000081, Part WF, A.1 (Design)
 - 0000000101, PLMBPart, A.2 (Design)

Insert Existing

Search On: All Applicable Types

Number:

Name: *b*

End Item:

Default Trace Code:

Search Clear

Number	Name	End Item	Default ...
0000000041	Part_OIR_Basic...	No	Untraced
0000000101	PLMBPart	No	Untraced
0000000001	Batch5	No	Untraced

OK Cancel

Products > product002

Actions Part - 0000000141, PART_LINKS, A.4 (Design)

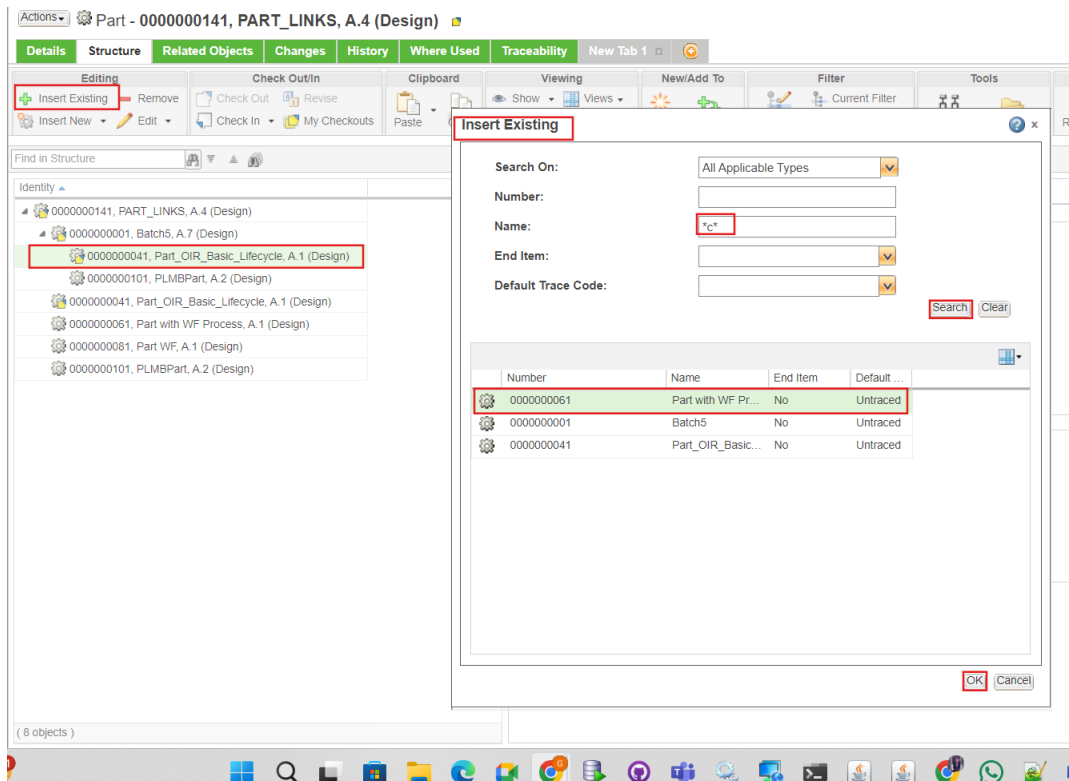
Details Structure Related Objects Changes History W

Editing: Insert Existing, Remove, Check Out, Revise, Insert New, Edit, Check In, My Checkouts, Clipboard, Paste

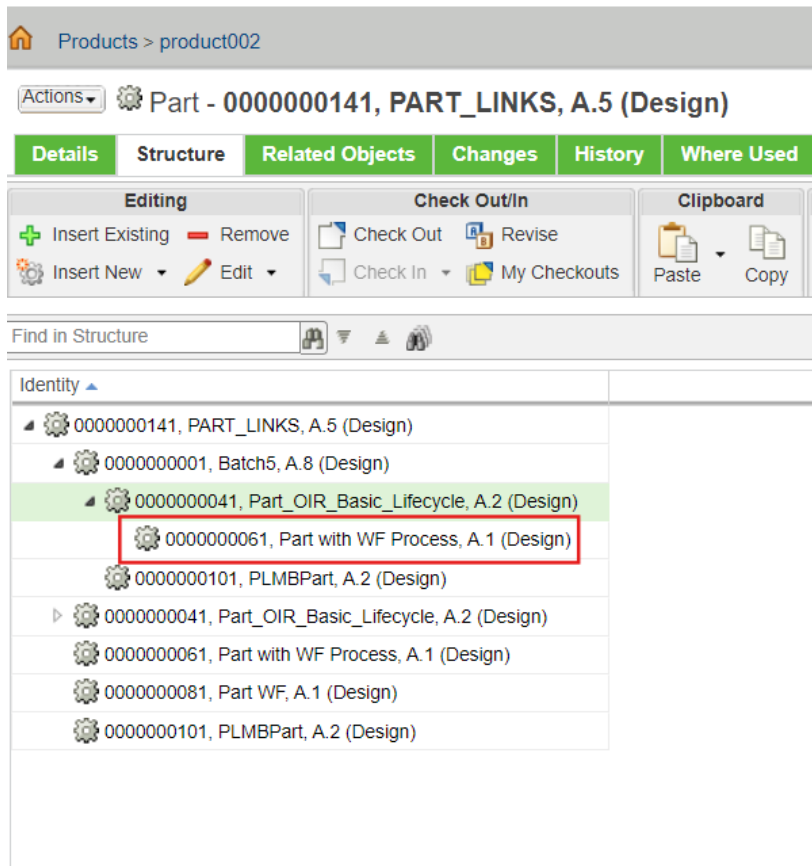
Find in Structure

Identity

- 0000000141, PART_LINKS, A.4 (Design)
 - 0000000001, Batch5, A.7 (Design)
 - 0000000041, Part_OIR_Basic_Lifecycle, A.1 (Design)
 - 0000000101, PLMBPart, A.2 (Design)
 - 0000000041, Part_OIR_Basic_Lifecycle, A.1 (Design)
 - 0000000061, Part with WF Process, A.1 (Design)
 - 0000000081, Part WF, A.1 (Design)
 - 0000000101, PLMBPart, A.2 (Design)



After adding the child under Parent, do not forget to check in the all-level Parents to save it.



Similarly do the same steps for Document object too to run the 3rd query,

Step 1: Now for Document select any document from the folder click on View icon (i).

windchill[®] Chachar2_organadmin [Part, Document, CAD D... Search ...]

Products > product002

Product - product002

Folders (1 objects)

Search in selected folder

product002

Folder Contents All

Number	Name	Version	State	Last Modified
0000000082	Doc_Link2	A.3	In Work	2024-10-18 12:22 IST
0000000141	PART_LINKS	A.5 (Design)	In Training	2024-10-18 02:19 IST
0000000081	Doc_Link1	A.1	In Work	2024-10-18 01:19 IST
0000000121	Part_Test	A.2 (Design)	In Training	2024-10-16 15:20 IST
0000000102	Test	A.1 (Design)	In Training	2024-10-11 02:16 IST
0000000101	PLMBPart	A.2 (Design)	In Training	2024-10-11 01:47 IST
0000000081	Part WF	A.1 (Design)	In Training	2024-10-08 19:24 IST

(0 objects selected)

Step 2: Go to Related Object of that Document -> Add Reference Document by clicking + sign -> Click on Search Button -> Select any Document -> click on Ok.

Document - 0000000082, Doc_Link2, A.3

Details Structure Content Related Objects Changes History Traceability

Where Used | References Documents

Where Used Latest

References Documents

Number # Version

0000000081 A.1

(0 objects selected)

Referenced By Documents

Number # Version

0000000141 A.5

Describes Parts

Number # Version

0000000141 A.5

References Documents - Google Chrome

Not secure gauri.gc/Windchill/ptc1/document/related_add_references_doc?ContainerOid=OR%3Awt.pdmlink.PDMLinkProduct%3A178118&u8=1&unique...

References Documents

Number:

Name:

Created By:

Created On: Choose Date Range: From: yyyy-mm-dd To: yyyy-mm-dd

State:

Search Clear

Search Results (10 objects)

Number	Version	Name	State
0000000081	A.1	Doc_Link1	In Work
0000000043	A.2	CSVDelimiterChanger	In Work
0000000042	B.1	Stack	In Work
0000000021	A.3	NewCSVille	In Work
0000000041	A.2	javabook	In Work
0000000042	A.2	Stack	In Work
0000000044	A.1	00001	In Work
0000000045	A.1	00002	In Work
0000000061	B.2	Windchill Business Administrator_Assignment1	In Work

(0 objects selected)

OK Cancel

You will see Document gets added under Reference Document

windchill[®] Chachar2_organadmin [Part, Document, CAD D...]

Products > product002

Document - 0000000082, Doc_Link2, A.3

Details Structure Content Related Objects Changes History Traceability

Where Used | References Documents | Referenced By Documents | Parts

Where Used Latest

References Documents

Number # Version

0000000081 A.1

(0 objects selected)

Referenced By Documents

Number # Version

0000000141 A.5

Describes Parts

Number # Version

0000000141 A.5

References Documents Default

Number #	Version	Name	Context	State	Last Modified	Comments
0000000081	A.1	Doc_Link1	product002	In Work	2024-10-18 01:19 IST	

For Usagelink:

Step 3: Go to Structure -> Add the Parent-Child relation into it by clicking Insert Existing -> Search it by giving *a* -> select the Documents -> click on Okay.

Likewise add another child into till Level 3 as (Parent – Child – Grand Child – Super Grand Child) by searching ** & then click ok.

windchill® Chachar2_orgadmin

Products > product002

Actions Document - 0000000082, Doc_Link2, A.3

Details Structure Content Related Objects Changes History Traceability

Editing Insert Existing Remove Insert New Edit

Check Out/In Check Out Check In Revise Clipboard Paste Copy Viewing Views Display New/Add To Add to Filter Current Filter Edit Filter Saved Filters Tools Download Primary Files

Find in Structure

Identity

- 0000000082, Doc_Link2, A.3
 - 0000000042, Stack, B.1
 - 0000000043, CSVDelimiterChanger
 - 0000000061, Windchill Business Administrator_Assignment1
 - 0000000021, NewCSVfile, A.3
 - 0000000061, Windchill Business Administrator_Assignment1
 - 0000000021, NewCSVfile, A.3

(7 objects)

Insert Existing

Search On: All Applicable Types

Name: *a*

Number:

Search Clear

Number	Name
0000000042	Stack
0000000061	Windchill Business Administrator_Assignment1
0000000043	CSVDelimiterChanger
0000000041	javabook

OK Cancel

Now you can find the Parent-Child relation added as below -> Check in all the Parents to save it.

Products > product002

Actions Document - 0000000082, Doc_Link2, A.4

Details Structure Content Related Objects Changes History Traceability

Editing Insert Existing Remove Insert New Edit

Check Out/In Check Out Check In Revise Clipboard Paste Copy Viewing Views Display New/Add To Add to Filter Current Filter Edit Filter Saved Filters Tools Download Primary Files

Find in Structure

Identity

- 0000000082, Doc_Link2, A.4
 - 0000000042, Stack, B.1
 - 0000000043, CSVDelimiterChanger, A.2
 - 0000000061, Windchill Business Administrator_Assignment1
 - 0000000021, NewCSVfile, A.3
 - 0000000061, Windchill Business Administrator_Assignment1
 - 0000000021, NewCSVfile, A.3

Attributes Uses

Document Attributes

Number: 0000000082

Name: Doc_Link2

Version: A.4

Type: Document

Primary Content: No Content

Latest Iteration: No Content

State: In Work - Released - Canceled

Status: Checked in

Modified By: Chachar2_orgadmin

Last Modified: 2024-10-18 12:37 IST

Now Run the query for the above objects mentioned in the question as below,

Write a SQL query to print below,

**Child_Name, Child_Number, Parent_Name, Parent_Number, Parent_LifeCycleState,
Child_LifeCycleState,**

Child_ContainerName, Parent_ContainerName

For

1. WTPartUsageLink:

```
select wtpm_parent.wtpartnumber as PARENT_NUMBER, wtpm_child.wtpartnumber as  
CHILD_NUMBER, wtpm_parent.name as PARENT_NAME, wtpm_child.name as  
CHILD_NAME, wtpm_parent.statestate as Parent_LifeCycleState, wtpm_child.statestate as  
Child_LifeCycleState, pdmlp_parent.namecontainerinfo as PARENT_CONTAINERNAME,  
pdmlp_child.namecontainerinfo as CHILD_CONTAINERNAME  
  
from wtpartmaster wtpm_parent, wtpartmaster wtpm_child, wtpart wtpm_parent, wtpart wtpm_child,  
wtpartusagelink link, pdmlinkproduct pdmlp_parent, pdmlinkproduct pdmlp_child  
  
where wtpm_parent.ida3masterreference = wtpm_parent.ida2a2  
and wtpm_child.ida3masterreference = wtpm_child.ida2a2  
and pdmlp_parent.ida2a2 = wtpm_parent.ida3containerreference  
and pdmlp_child.ida2a2 = wtpm_child.ida3containerreference  
and link.ida3a5 = wtpm_parent.ida2a2  
and link.ida3b5 = wtpm_child.ida2a2  
and wtpm_parent.wtpartnumber = '0000000141';
```

Windchilldb

Worksheet Query Builder

```

select wtpm_parent.wtpartnumber as PARENT_NUMBER, wtpm_child.wtpartnumber as CHILD_NUMBER, wtpm_parent.name as PARENT_NAME, wtpm_child.name as CHILD_NAME,
wtp_parent.statestate as Parent_LifeCycleState, wtp_child.statestate as Child_LifeCycleState, pdmlp_parent.namecontainerinfo as PARENT_CONTAINERNAME, pdmlp_child.namec
from wtpartmaster wtpm_parent, wtpartmaster wtpm_child, wtpart wtp_parent, wtpart wtp_child, wtpartusagelink link, pdmlinkproduct pdmlp_parent, pdmlinkproduct pdmlp_ch
where wtp_parent.ida3masterreference = wtpm_parent.ida2a2
and wtp_child.ida3masterreference = wtpm_child.ida2a2
and pdmlp_parent.ida2a2 = wtpm_parent.ida3containerreference
and pdmlp_child.ida2a2 = wtpm_child.ida3containerreference
and link.ida3a5 = wtpm_parent.ida2a2
and link.ida3b5 = wtpm_child.ida2a2
and wtpm_parent.wtpartnumber = '0000000141';

```

Query Result

All Rows Fetched: 14 in 0.003 seconds

	PARENT_NUMBER	CHILD_NUMBER	PARENT_NAME	CHILD_NAME	PARENT_LIFECYCLESTATE	CHILD_LIFECYCLESTATE	PARENT_CONTAINERNAME	CHILD_CONTAINERNAME
1	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
2	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
3	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
4	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
5	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
6	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
7	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
8	0000000141	0000000001	PART_LINKS	Batch5	IN TRAINING	INWORK	product002	product001
9	0000000141	0000000041	PART_LINKS	Part_OIR_Basic_Lifecycle	IN TRAINING	IN TRAINING	product002	product001
10	0000000141	0000000041	PART_LINKS	Part_OIR_Basic_Lifecycle	IN TRAINING	IN TRAINING	product002	product001
11	0000000141	0000000061	PART_LINKS	Part with WF Process	IN TRAINING	IN TRAINING	product002	product001
12	0000000141	0000000081	PART_LINKS	Part WF	IN TRAINING	IN TRAINING	product002	product002
13	0000000141	0000000101	PART_LINKS	PLMBPart	IN TRAINING	IN TRAINING	product002	product002
14	0000000141	0000000101	PART_LINKS	PLMBPart	IN TRAINING	IN TRAINING	product002	product002

2. WTPartDescribeLink:

```

select wtpm_parent.name as PARENT_NAME, wtpm_parent.wtpartnumber as PARENT_NUMBER,
wtdm_child.name as CHILD_NAME ,wtdm_child.wtdocumentnumber as CHILD_NUMBER,
wtp_parent.statestate as PARENT_LIFECYCLESTATE, wtd_child.statestate as CHILD_LIFECYCLESTATE,
pdmlp_parent.namecontainerinfo as PARENT_CONTAINERNAME, pdmlp_child.namecontainerinfo as
CHILD_CONTAINERNAME

```

```

from wtpartdescribelink link, wtpart wtp_parent, wtpartmaster wtpm_parent, wtdocument
wtd_child, wtdocumentmaster wtdm_child, pdmlinkproduct pdmlp_parent, pdmlinkproduct
pdmlp_child

```

```

where wtp_parent.ida3masterreference = wtpm_parent.ida2a2

```

```

and wtd_child.ida3masterreference = wtdm_child.ida2a2

```

```

and pdmlp_parent.ida2a2 = wtpm_parent.ida3containerreference

```

```

and pdmlp_child.ida2a2 = wtd_child.ida3containerreference

```

```

and link.ida3a5 = wtpm_parent.ida2a2

```

```

and link.ida3b5 = wtd_child.ida2a2

```

```

and wtpm_parent.wtpartnumber = '0000000141';

```

Windchilldb

Worksheet Query Builder

```

Select wtpm_parent.name as PARENT_NAME, wtpm_parent.wtpartnumber as PARENT_NUMBER, wtdm_child.name as CHILD_NAME, wtdm_child.wtdocumentnumber as CHILD_NUMBER,
wtpm_parent.statestate as PARENT_LIFECYCLESTATE, wtd_child.statestate as CHILD_LIFECYCLESTATE, pdmlp_parent.namecontainerinfo as PARENT_CONTAINERNAME, pdmlp_child.namecontainerinfo as CHILD_CONTAINERNAME
from wtpartdescribelink link, wtpart wtp_parent, wtpartmaster wtpm_parent, wtdocument wtd_child, wtdocumentmaster wtdm_child, pdmlinkproduct pdmlp_parent, pdmlinkproduct pdmlp_child
where wtpm_parent.ida3masterreference = wtpm_parent.ida2a2
and wtd_child.ida3masterreference = wtdm_child.ida2a2
and pdmlp_parent.ida2a2 = wtpm_parent.ida3containerreference
and pdmlp_child.ida2a2 = wtd_child.ida3containerreference
and link.ida3a5 = wtpm_parent.ida2a2
and link.ida3b5 = wtd_child.ida2a2
and wtpm_parent.wtpartnumber = '0000000141';

```

Query Result

All Rows Fetched: 6 in 0.016 seconds

	PARENT_NAME	PARENT_NUMBER	CHILD_NAME	CHILD_NUMBER	PARENT_LIFECYCLESTATE	CHILD_LIFECYCLESTATE	PARENT_CONTAINERNAME	CHILD_CONTAINERNAME
1	PART_LINKS	0000000141	Doc_Link2	0000000082	IN TRAINING	INWORK	product002	product002
2	PART_LINKS	0000000141	Doc_Link1	0000000081	IN TRAINING	INWORK	product002	product002
3	PART_LINKS	0000000141	Doc_Link1	0000000081	IN TRAINING	INWORK	product002	product002
4	PART_LINKS	0000000141	Doc_Link2	0000000082	IN TRAINING	INWORK	product002	product002
5	PART_LINKS	0000000141	Doc_Link1	0000000081	IN TRAINING	INWORK	product002	product002
6	PART_LINKS	0000000141	Doc_Link2	0000000082	IN TRAINING	INWORK	product002	product002

3. WTDocumentUsageLink:

```

select wtdm_parent.wtdocumentnumber as PARENT_NUMBER, wtdm_child.wtdocumentnumber as CHILD_NUMBER, wtdm_parent.name as PARENT_NAME, wtdm_child.name as CHILD_NAME,
wtd_parent.statestate as Parent_LifeCycleState, wtd_child.statestate as Child_LifeCycleState,
pdmlp_parent.namecontainerinfo as PARENT_CONTAINERNAME, pdmlp_child.namecontainerinfo as CHILD_CONTAINERNAME

```

```

from wtdocumentmaster wtdm_parent, wtdocumentmaster wtdm_child, wtdocument wtd_parent,
wtdocument wtd_child, wtdocumentusagelink link, pdmlinkproduct pdmlp_parent, pdmlinkproduct
pdmlp_child

```

```

where wtd_parent.ida3masterreference = wtdm_parent.ida2a2

```

```

and wtd_child.ida3masterreference = wtdm_child.ida2a2

```

```

and pdmlp_parent.ida2a2 = wtd_parent.ida3containerreference

```

```

and pdmlp_child.ida2a2 = wtd_child.ida3containerreference

```

```

and link.ida3a5 = wtd_parent.ida2a2

```

```

and link.ida3b5 = wtdm_child.ida2a2

```

```

and wtdm_parent.wtdocumentnumber = '0000000082';

```

Windchilldb x

Worksheet Query Builder

```
26 select wtdm_parent.wtdocumentnumber as PARENT_NUMBER, wtdm_child.wtdocumentnumber as CHILD_NUMBER, wtdm_parent.name as PARENT_NAME, wtdm_child.name as CHILD_NAME,
27 wtdm_parent.statestate as Parent_LifeCycleState, wtdm_child.statestate as Child_LifeCycleState, pdmlp_parent.namecontainerinfo as PARENT_CONTAINERNAME, pdmlp_child.namecon
28 from wtdocumentmaster wtdm_parent, wtdocumentmaster wtdm_child, wtdocument wtdm_parent, wtdocument wtdm_child, wtdocumentusagelink link, pdmlinkproduct pdmlp_parent, pdml
29 where wtdm_parent.ida3masterreference = wtdm_parent.ida2a2
30 and wtdm_child.ida3masterreference = wtdm_child.ida2a2
31 and pdmlp_parent.ida2a2 = wtdm_parent.ida3containerreference
32 and pdmlp_child.ida2a2 = wtdm_child.ida3containerreference
33 and link.ida3a5 = wtdm_parent.ida2a2
34 and link.ida3b5 = wtdm_child.ida2a2
35 and wtdm_parent.wtdocumentnumber = '0000000082';
```

Query Result x

SQL | All Rows Fetched: 10 in 0 seconds

	PARENT_NUMBER	CHILD_NUMBER	PARENT_NAME	CHILD_NAME	PARENT_LIFECYCLESTATE	CHILD_LIFECYCLESTATE	PARENT_CONTAINERNAME	CHILD_CONTAINERNAME
1	0000000082	0000000042	Doc_Link2	Stack	INWORK	INWORK	product002	product001
2	0000000082	0000000042	Doc_Link2	Stack	INWORK	INWORK	product002	product001
3	0000000082	0000000042	Doc_Link2	Stack	INWORK	INWORK	product002	product001
4	0000000082	0000000043	Doc_Link2	CSVDelimiterChanger	INWORK	INWORK	product002	product001
5	0000000082	0000000043	Doc_Link2	CSVDelimiterChanger	INWORK	INWORK	product002	product001
6	0000000082	0000000043	Doc_Link2	CSVDelimiterChanger	INWORK	INWORK	product002	product001
7	0000000082	0000000043	Doc_Link2	CSVDelimiterChanger	INWORK	INWORK	product002	product001
8	0000000082	0000000042	Doc_Link2	Stack	INWORK	INWORK	product002	product001
9	0000000082	0000000042	Doc_Link2	Stack	INWORK	INWORK	product002	product001
10	0000000082	0000000042	Doc_Link2	Stack	INWORK	INWORK	product002	product001