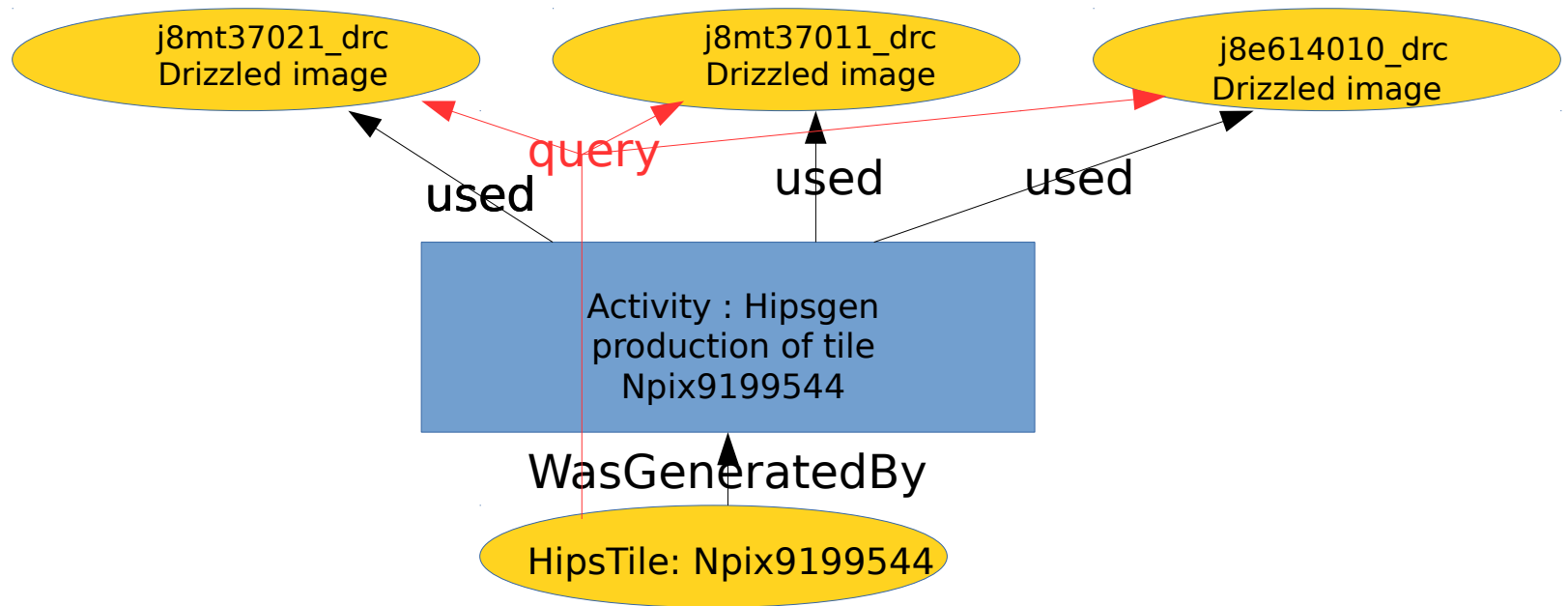


ProvHiPS ADQL query examples :

Finding out drizzled images « progenitors » of a specific HiPS tile.



ProvHiPS ADQL query examples :

Finding out drizzled images « progenitors » of a specific HiPS tile.

```
select e.e_name, e.e_comment, a_name, a_starttime,  
       a_comment, ee.e_name, ee.e_comment from entity e  
join wasgeneratedby on e.e_id = wgb_entity  
join activity on wgb_activity = a_id  
join used on a_id = u_activity  
join entity ee on ee.e_id = u_entity  
where e.e_name like '%Npix9199544'
```



ProvHiPS ADQL query examples :

Finding out drizzled images « progenitors » of a specific HiPS tile.

Window TAP Registry Edit Interop Help

TOPCAT(48): Table Browser

Table Browser for 48: TAP_54_entity,wasgeneratedby,activity,used,entit...

	e_name	e_comment	a_name	a_starttime	a_comment	e_name	e_comment
1	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8e614010_drc	Drizzled HST image from ACS centered on 53.0...
2	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt37011_drc	Drizzled HST image from ACS centered on 53.0...
3	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt37021_drc	Drizzled HST image from ACS centered on 52.9...
4	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt37031_drc	Drizzled HST image from ACS centered on 52.9...
5	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt38011_drc	Drizzled HST image from ACS centered on 53.0...
6	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt38021_drc	Drizzled HST image from ACS centered on 53.0...
7	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt38031_drc	Drizzled HST image from ACS centered on 52.9...
8	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt39011_drc	Drizzled HST image from ACS centered on 53.0...
9	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt39021_drc	Drizzled HST image from ACS centered on 53.0...
10	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8mt39031_drc	Drizzled HST image from ACS centered on 53.0...
11	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	j8wtj1020_drc	Drizzled HST image from ACS centered on 53.0...
12	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn602010_drc	Drizzled HST image from ACS centered on 53.0...
13	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn602020_drc	Drizzled HST image from ACS centered on 53.0...
14	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn602030_drc	Drizzled HST image from ACS centered on 53.0...
15	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn604010_drc	Drizzled HST image from ACS centered on 53.0...
16	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn604020_drc	Drizzled HST image from ACS centered on 53.0...
17	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn609010_drc	Drizzled HST image from ACS centered on 52.9...
18	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn609020_drc	Drizzled HST image from ACS centered on 52.9...
19	HST_V_Order10_Npix9199544	Npix9199544 tile of HST-V HiPS of size 12.25 a...	HST_V_Order10_Npix9199544 Generation	2019-01-09T02:34Z	hipsGEN version 10.101 generation of Npix91...	jcn611010_drc	Drizzled HST image from ACS centered on 52.9...

Total: 36 Visible: 36 Selected: 0

used
valuedescription
wasassociatedwith
unattributed

Service Capabilities

Query Language: ADQL-2.0 Max Rows: 1000000 (default) Uploads: unavailable

ADQL Text

Mode: Synchronous

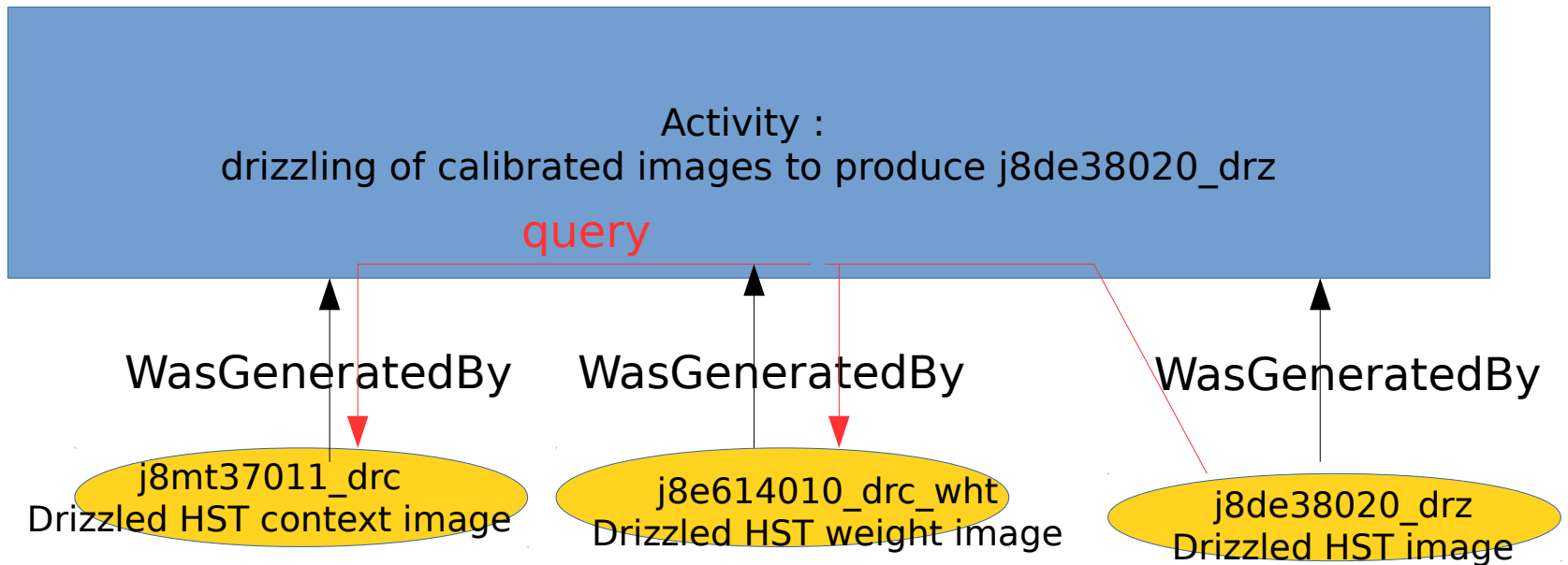
```

select e.e_name, e.e_comment, a_name, a_starttime, a_comment, ee.e_name, ee.e_comment from entity e
join wasgeneratedby on e.e_id = wgb_entity
join activity on wgb_activity = a_id
join used on a_id = u_activity
join entity ee on ee.e_id = u_entity
where e.e_name like '%Npix9199544'
    
```



ProvHiPS ADQL query examples :

Finding out other products of a drizzling activity which generated a specific drizzled image.



ProvHiPS ADQL query examples :

Finding out other products of a drizzling activity which generated a specific drizzled image

```
select e.e_name, e.e_comment, a_name, a_starttime,  
       ee.e_type, ee.e_name, ee.e_comment from entity e  
join wasgeneratedby w on e.e_id = w.wgb_entity  
join activity on w.wgb_activity = a_id  
join wasgeneratedby ww on a_id = ww.wgb_activity join  
entity ee on ee.e_id = ww.wgb_entity  
where e.e_name = 'j8de38020_drz' and ee.e_id !=  
       e.e_id
```



ProvHiPS ADQL query examples :

Finding out other products of a drizzling activity which generated a specific drizzled image

The screenshot shows the TOPCAT software interface. On the left, the 'Metadata' browser displays a tree structure of 'TAP Service (25)' and 'provenance (20)'. The 'provenance' section is expanded, showing various entity types like 'activity', 'agent', 'collection', etc. The main window shows the 'Table Browser' for the table 'TAP_58_entity,wasgeneratedby,activity,wasgenerat...'. The table contains two rows of data, both with 'e_name' 'j8de38020_drz' and 'e_comment' 'Drizzled HST image from ACS centered on 53.0...'. The table browser also shows columns for 'a_name', 'a_s...', 'e_type', and 'e_name'. Below the table browser, the 'Service Capabilities' section shows 'Query Language: ADQL-2.0', 'Max Rows: 1000000 (default)', and 'Uploads: unavailable'. The 'ADQL Text' section shows a query:

```
1
select e.e_name, e.e_comment, a_name, a_starttime, ee.e_type, ee.e_name, ee.e_comment from entity e
join wasgeneratedby w on e.e_id = w.wgb_entity
join activity on w.wgb_activity = a_id
join wasgeneratedby ww on a_id = ww.wgb_activity
join entity ee on ee.e_id = ww.wgb_entity
where e.e_name = 'j8de38020_drz' and ee.e_id != e.e_id
```



ProvHiPS ADQL query examples :

Displaying some activities documentation for specific activities through their activity description

Calibration
Activity description
-name
- docURL
-etc...

query

Activity : calibration of
Image so and so ... ;

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CALIBRATION

HST Home | About | Proposing | Observing | Instrumentation | Documentation | News & Events

Home > Hubble Space Telescope > Instrumentation > Advanced Camera for Surveys

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Introduction

Previously, data requested from MAST were generated using the "on the fly reprocessing" (OTFR) approach. However, with the growing size of the archive and the increasing complexity of calibration software the archive has switched to become a static one. This means that archived data are no longer reprocessed each time users submit requests to MAST. Instead, the data are only reprocessed when significant changes are made to either the calibration software (e.g. CALACS) or new/improved reference files (e.g. DARKFILE, BIASFILE, etc.) have become available. As soon as these changes are implemented, the affected datasets are reprocessed and the status of their reprocessing is reported on the [MAST processing status page](#). Once reprocessing has completed, users can download the freshly calibrated data products. For users who wish to reprocess their data locally, the ACS team has created a [Jupyter notebook](#) that outlines this process starting from RAWs and ending with FLT/FLCs and we strongly recommend you follow this guided example closely. You can access this notebook on the [ACS Analysis Tools webpage](#).



ProvHiPS ADQL query examples :

Displaying some activities documentation for specific activities through their activity description

```
select a_name, a_starttime, a_comment, ad_name,  
       ad_description, ad_type, ad_subtype, ad_doculink  
from activity  
join activitydescription on a_description = ad_id
```



ProvHiPS ADQL query examples :

Displaying some activities documentation for specific activities through their activity description

TOPCAT(56): Table Browser

Window Rows Help

Table Browser for 56: TAP_64_activity,activitydescription

	a_name	a_starttime	a_comment	ad_name	ad_description	ad_type	ad_subtype	ad_doculink
1	jcx15r1q_fit.fits_Calibration	2018-10-26T00:00:00	Calibration of image jcx15r1q_fit.fits obtaine...	HST_CALACS_Activity	HST_ACS_Calibration activity	Calibration	PhotometricCalibration	http://www.stsci.edu/hst/instrumentation/acs/calibration
2	j8mbncsfq_fit.fits_Calibration	2018-05-31T00:00:00	Calibration of image j8mbncsfq_fit.fits obtaine...	HST_CALACS_Activity				
3	jdgq04c7q_fit.fits_Calibration	2018-10-27T00:00:00	Calibration of image jdgq04c7q_fit.fits obtaine...	HST_CALACS_Activity				
4	jca531heq_fit.fits_Calibration	2018-10-22T00:00:00	Calibration of image jca531heq_fit.fits obtaine...	HST_CALACS_Activity				
5	j8f0a1b4q_fit.fits_Calibration	2017-11-02T00:00:00	Calibration of image j8f0a1b4q_fit.fits obtaine...	HST_CALACS_Activity				
6	j90znag1q_fit.fits_Calibration	2018-06-03T00:00:00	Calibration of image j90znag1q_fit.fits obtaine...	HST_CALACS_Activity				
7	j91y01p7s_fit.fits_Calibration	2018-06-04T00:00:00	Calibration of image j91y01p7s_fit.fits obtaine...	HST_CALACS_Activity				
8	jd851ohq_fit.fits_Calibration	2018-07-02T00:00:00	Calibration of image jd851ohq_fit.fits obtaine...	HST_CALACS_Activity				
9	jbevelv4q_fit.fits_Calibration	2018-10-15T00:00:00	Calibration of image jbevelv4q_fit.fits obtaine...	HST_CALACS_Activity				
10	j6mi10c7q_fit.fits_Calibration	2017-11-01T00:00:00	Calibration of image j6mi10c7q_fit.fits obtaine...	HST_CALACS_Activity				
11	jcat11bnq_fit.fits_Calibration	2018-10-22T00:00:00	Calibration of image jcat11bnq_fit.fits obtaine...	HST_CALACS_Activity				
12	jcc210e1q_fit.fits_Calibration	2018-10-22T00:00:00	Calibration of image jcc210e1q_fit.fits obtaine...	HST_CALACS_Activity				
13	j96012q2q_fit.fits_Calibration	2018-06-05T00:00:00	Calibration of image j96012q2q_fit.fits obtaine...	HST_CALACS_Activity				
14	02c14512j_npl.fits_Calibration	2018-06-04T00:00:00	Calibration of image 02c14512j_npl.fits obtaine...	HST_CALACS_Activity				
15	j90o48b9q_fit.fits_Calibration	2018-06-03T00:00:00	Calibration of image j90o48b9q_fit.fits obtaine...	HST_CALACS_Activity				
16	j9h522zq_fit.fits_Calibration	2018-10-12T00:00:00	Calibration of image j9h522zq_fit.fits obtained...	HST_CALACS_Activity				
17	jdkb13fcq_fit.fits_Calibration	2018-10-28T00:00:00	Calibration of image jdkb13fcq_fit.fits obtaine...	HST_CALACS_Activity				
18	jbwjccbeq_fit.fits_Calibration	2018-10-19T00:00:00	Calibration of image jbwjccbeq_fit.fits obtaine...	HST_CALACS_Activity				
19	j8y2leqz_fit.fits_Calibration	2017-11-05T00:00:00	Calibration of image j8y2leqz_fit.fits obtained...	HST_CALACS_Activity				

Total: 10 373 Visible: 10 373 Selected: 1

Service Capabilities

Query Language: ADQL-2.0 Max Rows: 1000000 (default) Uploads: unavailable

ADQL Text

Mode: Synchronous

```

1
select a_name, a_starttime, a_comment, ad_name, ad_description, ad_type, ad_subtype, ad_doculink from activity
join activitydescription on a_description = ad_id

```

Examples

TOPCAT(56): Activation Actions

Window Actions Help

Activation Actions for 56: TAP_64_activity,activitydescription

Actions

- Send HiPS cutout
- Display image
- Display image region
- Load Table
- Plot Table
- Send FITS Image
- Send Spectrum
- Download URL
- View in Web Browser
- Delay
- Execute code
- Run system command
- Send row index

Description

Load an associated resource into a web browser

Configuration

Resource Identifier: ad_doculink

Identifier Type: auto

Browser: system browser

Status

Invoke now on row 1

Results

Seq	Row	Status	Message
1	1	OK	http://www.stsci.edu/hst/instrumentation/acs/calibration
2	1	OK	http://www.stsci.edu/hst/instrumentation/acs/calibration
3	1	OK	http://www.stsci.edu/hst/instrumentation/acs/calibration
4	1	OK	http://www.stsci.edu/hst/instrumentation/acs/calibration
5	1	OK	http://www.stsci.edu/hst/instrumentation/acs/calibration

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CALIBRATION

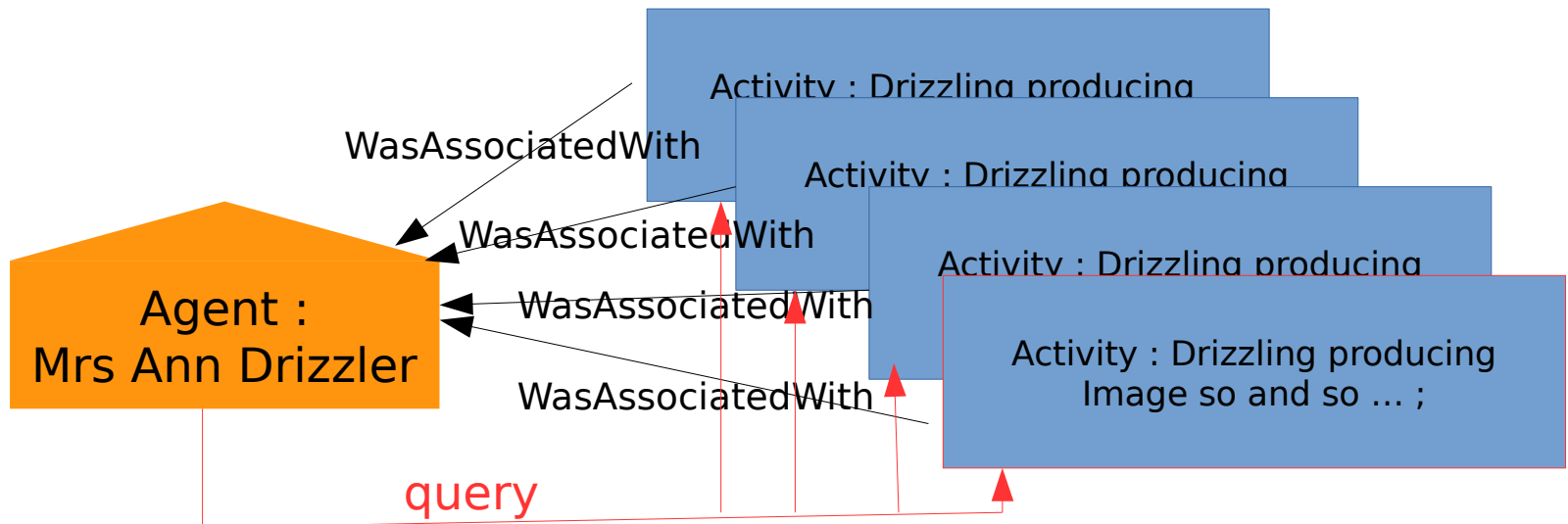
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ProvHiPS ADQL query examples :

Finding out drizzling activities attributed to a specific agent



ProvHiPS ADQL query examples :

Finding out drizzling activities attributed to a specific agent

```
select a_name, a_comment, a_starttime, waw_role,  
       ag_name, ag_type from agent  
join wasassociatedwith on ag_id = waw_agent  
join activity on a_id = waw_activity  
where ag_name = 'Ms Ann Drizzler'
```

