**Dataset**

|  |  |
| --- | --- |
| Size on Disk | 24 G.B |
| Number of Triples | 114343293 |
| Number of unique properties | 19 |

**Properties**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Properties** | **No of sub** | **No of Pred** | **Sample (sub)** | **Sample (Obj)** |
| 1 | ProcessLocation | 9702 | 9702 | System\_KILN | Point\_C1746 |
| 2 | Distance | 9702 | 6945 | LocatedNearRelAR910 | Float |
| 3 | FloatValue | 66156 | 1397 | MeasureDataDewPoint  MeasureDataWindDirection  MeasureDataWindGust  MeasureDataPrecipitation  MeasureDataWindSpeed  MeasureDataPressure  MeasureDataAirTemperature  MeasureDataRelativeHumidity | Float |
| 4 | HasLocation | 9702 | 9488 | LocatedNearRelAR724 | sws.geoname.org/5759102 |
| 5 | HasLocatedNearRel | 9702 | 9702 | Sytem\_KILN | LocatedNearRelAR910 |
| 6 | ObservedProperty | 66154 | 8 | ObservationDewPoint  ObservationWindDirection  ObservationWindGust  ObservationPrecipitation  ObservationWindSpeed, ObservationPressure  ObservationAirTemperature  ObservationRelativeHumidity | Dew Point  Wind Direction  Wind Gust  Precipitation  Wind Speed  Pressure  Air Temperature  Relative Humidity |
| 7 | UOM | 4480 | 7 | MeasureDataDewPoint  MeasureDataWindDirection  MeasureDataWindGust  MeasureDataPrecipitation  MeasureDataWindSpeed  MeasureDataPressure  MeasureDataAirTemperature  MeasureDataRelativeHumidity | Miles per Hour  Miles  Fahrenheit  Centimeters  Inches  Percent  Degrees |
| 8 | Parameter | 9688 | 16 | System\_KILN | Air Temperature  Relative Humidity  Peak Wind Speed  Soil Temperature  Visibility  Snow Depth  Soil Moisture  Snow Smoothed  Wind Speed  Wind Direction  Precipitation Smoothed  Precipitation Accumulation  Snow interval  Wind Gust  Peak Wind Direction  Dew Point |
| 9 | SamplingTime | 66154 | 1728 | ObservationDewPoint  ObservationWindDirection  ObservationWindGust  ObservationPrecipitation  ObservationWindSpeed, ObservationPressure  ObservationAirTemperature  ObservationRelativeHumidity | Instant\_2004\_8\_8\_7\_5\_00 |
| 10 | Result | 66154 | 66154 | ObservationDewPoint  ObservationWindDirection  ObservationWindGust  ObservationPrecipitation  ObservationWindSpeed, ObservationPressure  ObservationAirTemperature  ObservationRelativeHumidity | MeasureDataDewPoint  MeasureDataWindDirection  MeasureDataWindGust  MeasureDataPrecipitation  MeasureDataWindSpeed  MeasureDataPressure  MeasureDataAirTemperature  MeasureDataRelativeHumidity |
| 11 | DateTime | 1728 | 2143 | Instant\_2004\_8\_7\_8\_5\_600 | Date time |
| 12 | GeneratedObservation | 19 | 66500 | System\_A16  Other System names | ObservationDewPoint  ObservationWindDirection  ObservationWindGust  ObservationPrecipitation  ObservationWindSpeed, ObservationPressure  ObservationAirTemperature  ObservationRelativeHumidity |
| 13 | Long | 9702 | 9161 | Point\_c1746 | Float |
| 14 | HasSourceURI | 9702 | 9702 | System\_KILN | Meso\_base.cgi?stn=4105 |
| 15 | Procedure | 66154 | 19 | ObservationDewPoint  ObservationWindDirection  ObservationWindGust  ObservationPrecipitation  ObservationWindSpeed, ObservationPressure  ObservationAirTemperature  ObservationRelativeHumidity | System\_A16  Other System names |
| 16 | Alt | 9702 | 3250 | Point\_c1746 | Float |
| 17 | Lat | 9702 | 8877 | Point\_c1746 | Float |
| 18 | ID | 9702 | 9702 | Ssytem\_KILN | UPEWVI (different ids) |
| 19 | Type | 163144 | 11 | MeasureDataWind…  “  “  ObservationDataWind…  “  “  Point\_c1746  “  “ | Rainfall Observation  System  Wind direction  Measure data  Point  Pressure observation  Instant  locatedNearReL  Wind Speed observation  Relative humidity observation |

|  |  |
| --- | --- |
| 1 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#processLocation>" |
| 2 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#distance>" |
| 3 | "<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>" |
| 4 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>" |
| 5 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>" |
| 6 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocatedNearRel>" |
| 7 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>" |
| 8 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>" |
| 9 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#parameter>" |
| 10 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>" |
| 11 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#result>" |
| 12 | "<http://www.w3.org/2006/time#inXSDDateTime>" |
| 13 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#generatedObservation>" |
| 14 | "<http://www.w3.org/2003/01/geo/wgs84\_pos#long>" |
| 15 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasSourceURI>" |
| 16 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#procedure>" |
| 17 | "<http://www.w3.org/2003/01/geo/wgs84\_pos#alt>" |
| 18 | "<http://www.w3.org/2003/01/geo/wgs84\_pos#lat>" |
| 19 | "<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#ID>" |

**Properties with Subject-Subject Joins in Dataset:**

|  |  |  |
| --- | --- | --- |
| SS | | |
|
| 1 | Process Location | HasLocatedNearRel |
| 2 | Process Location | Parameter |
| 3 | Process Location | HasSource URI |
| 4 | Process Location | ID |
| 5 | Distance | HasLocation |
| 6 | Distance | Type |
| 7 | Float Value | UOM |
| 8 | Has Located NearRel | ID |
| 9 | Observed Property | Sampling Time |
| 10 | Observed Property | Result |
| 11 | Observed Property | Procedure |
| 12 | Observed Property | Type |
| 13 | UOM | Float Value |
| 14 | UOM | Type |
| 15 | Parameter | HasSource URI |
| 16 | Parameter | ID |
| 17 | Sampling Time | Procedure |
| 18 | Sampling Time | Type |
| 19 | Sampling Time | Generated Observation |
| 20 | Result | Procedure |
| 21 | Result | Type |
| 22 | Long | Alt |
| 23 | Long | Lat |
| 24 | Has Source URI | ID |
| 25 | Procedure | Type |
| 26 | Alt | Lat |
|  |  |  |

**Properties with Subject-Object Joins in Dataset:**

|  |  |  |
| --- | --- | --- |
| SO | | |
|
| 1 | Process Location | Long |
| 2 | Process Location | Alt |
| 3 | Process Location | Lat |
| 4 | Process Location | Type |
| 5 | Distance | HasLocatedNearRel |
| 6 | Float Value | Result |
| 7 | Has Location | HasLocatedNearRel |
| 8 | ObservedProeprty | Generated Observation |
| 9 | ObservedProeprty | Procedure |
| 10 | Sampling Time | Generated Observation |
| 11 | Sampling Time | Date Time |
| 12 | Result | Proceudre |
| 13 | Result | Type |
| 14 | GeneratedObservation | Procedure |
| 15 | GeneratedObservation | Type |
| 16 | Long | Type |
| 17 | Alt | Type |
| 18 | Lat | Type |

**Query Set**

1. Find sensors located near “xyz” with freezing temperature

(haslocation, floatvalue,UOM)

1. Find temperature where relative humidity observed is more than “xyz”

(type, float value, result)

1. Find sensors at location “xyz”

(haslocation)

1. Find rainfall observation where relative humidity is less than “xyz

(type, float value, result)

1. Find rainfall record at point “xyz” on datetime “xyz”

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find wind speed at point “xyz” on datetime “xyz”

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find system name and location with ID “xyz”

(ID, processLocation)

1. Find lat, alt at point “xyz”

(processLocation, Alt, Lat)

1. Find average rainfall at place “xyz” for day1 to day10

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find average temperature at place “xyz” in a date time range

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find average wind speed at place “xyz” within a time range

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find average wind gust at place “xyz” in a date time range

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find lat, alt for a system\_”name”

(processLocation, Id, alt, Lat)

1. Find dew point at location “xyz” on date time

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find wind direction recorded for a system “xyz” on date time

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

1. Find pressure record more than “vyx” at various locations.

(haslocation, float value, uom, datetime, samplinf time, observerdProeprty)

**Queries in SQL**

/\* 1. Find sensors located near <http://knoesis.wright.edu/ssw/LocatedNearRel4UT01> with temperature "6.0"^^<http://www.w3.org/2001/XMLSchema#float> \*/

select L1.sub,L1.obj,L2.sub,L2.obj,L3.sub,L3.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRel4UT01>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.obj like '"6.0"^^<http://www.w3.org/2001/XMLSchema#float>'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#fahrenheit>'

and L2.sub=L3.sub

/\* 2. Find sensors relative humidity observed is "25.0"^^<http://www.w3.org/2001/XMLSchema#float> \*/

select L1.sub,L2.obj,L2.sub,L2.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3

where L1.pred like '<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>'

and L1.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#RelativeHumidityObservation>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.obj like '"25.0"^^<http://www.w3.org/2001/XMLSchema#float>'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#result>'

and L2.sub = L3.obj

and L1.sub=L3.sub;

/\* 3. Find sensors located near <http://knoesis.wright.edu/ssw/LocatedNearRelAAMA1> \*/

select sub, obj from "LODTriples"

where pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelAAMA1>';

/\* 4. Find various lacotions where Wind speed is ""9.0"^^<http://www.w3.org/2001/XMLSchema#float>" \*/

select L1.sub,L1.obj, L2.sub,L2.obj, L3.sub,L3.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3

where L1.pred like '<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>'

and L1.sub like '<http://knoesis.wright.edu/ssw/Observation\_WindSpeed%'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.obj like '"9.0"^^<http://www.w3.org/2001/XMLSchema#float>'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#result>'

and L1.sub=L3.sub

and L2.sub=L3.obj

/\* 5. Find rainfall record at point <http://knoesis.wright.edu/ssw/LocatedNearRelAP268> at date time "2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime" \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelAP268>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_Precipitation%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#centimeters>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_Precipitation%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_Precipitation>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 6. Find wind speed record at <http://knoesis.wright.edu/ssw/LocatedNearRelA21> at date time "2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime" \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelA21>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_WindSpeed%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#milesPerHour>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_WindSpeed%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_WindSpeed>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 7. Find sysstem name and location with their ids \*/

select L1.sub,L1.obj,L2.obj from "LODTriples" L1, "LODTriples" L2

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#ID>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#processLocation>'

and L1.sub = L2.sub

/\* 8. Find sytem name at point with lat, alt \*/

Select L1.sub,L1.obj,L2.obj,L3.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#processLocation>'

and L2.pred like '<http://www.w3.org/2003/01/geo/wgs84\_pos#alt>'

and L3.pred like '<http://www.w3.org/2003/01/geo/wgs84\_pos#lat>'

and L1.obj=L2.sub

and L1.obj=L3.sub;

/\* 9. Find average rainfall at '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>' in August 2004 \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_Precipitation%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#centimeters>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_Precipitation%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_Precipitation>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 10. Find average temperature at '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>' in August 2004 \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_AirTemperature%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#fahrenheit>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_AirTemperature%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_AirTemperature>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 11. Find average Wind speed at '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>' in August 2004 \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_WindSpeed%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#milesPerHour>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_WindSpeed%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_WindSpeed>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 12. Find average Wind gust at '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>' in August 2004 \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelA25>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_WindGust%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#milesPerHour>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_WindGust%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_WindGust>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 13 Find location and id for a system A07 \*/

Select L1.sub,L1.obj,L2.obj,L3.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#processLocation>'

and L2.pred like '<http://www.w3.org/2003/01/geo/wgs84\_pos#alt>'

and L3.pred like '<http://www.w3.org/2003/01/geo/wgs84\_pos#lat>'

and L4.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#ID>'

and L4.obj like '"A07"'

and L1.obj=L2.sub

and L1.obj=L3.sub

and L1.sub=L4.sub;

/\* 14. Find dew point ferenheit at <http://knoesis.wright.edu/ssw/LocatedNearRelAKFLO> at time "2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime" \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelAKFLO>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_Dew%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#fahrenheit>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_Dew%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_DewPoint>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 15. Find wind direction deg at '<http://knoesis.wright.edu/ssw/LocatedNearRelAKFLO>' at time "2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime" \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelAKFLO>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_WindDirection%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#degrees>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_WindDirection%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_WindDirection>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub

/\* 16. Find Pressure at inches '<http://knoesis.wright.edu/ssw/LocatedNearRelAKFLO>' at time "2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime" \*/

select L1.sub,L3.sub,L3.obj,L4.obj from "LODTriples" L1, "LODTriples" L2, "LODTriples" L3, "LODTriples" L4, "LODTriples" L5, "LODTriples" L6

where L1.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#hasLocation>'

and L1.sub like '<http://knoesis.wright.edu/ssw/LocatedNearRelAKFLO>'

and L2.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#floatValue>'

and L2.sub like '<http://knoesis.wright.edu/ssw/MeasureData\_Pressure%'

and L3.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#uom>'

and L3.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#inches>'

and L4.pred like '<http://www.w3.org/2006/time#inXSDDateTime>'

and L4.obj like '"2004-08-09T10:40:00-06:00^^http://www.w3.org/2001/XMLSchema#dateTime"'

and L5.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#samplingTime>'

and L5.sub like '<http://knoesis.wright.edu/ssw/Observation\_Pressure%'

and L6.pred like '<http://knoesis.wright.edu/ssw/ont/sensor-observation.owl#observedProperty>'

and L6.obj like '<http://knoesis.wright.edu/ssw/ont/weather.owl#\_Pressure>'

and L2.sub=L3.sub

and L4.sub=L5.obj

and L5.sub=L6.sub