How to join Results to Limits using the Water Quality Portal download reports?

Result Detection Quantitation Limit Data
Table 8.
ResultIdentifier

- Download Limits

Sample results (narrow)
Table 7.
ResultIdentifier
ActivityIdentifier

- Download Results

Sampling Activity
Table 9
ActivityIdentifier

- Download Biological Activity Metadata
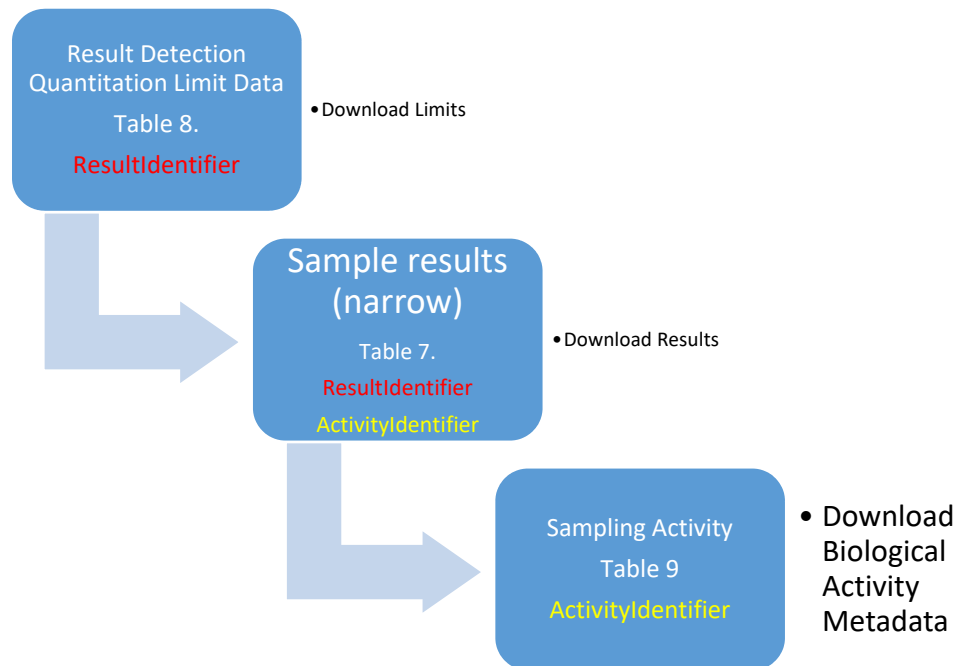
Defining the "Join Type" in MS Access as follows

1. RESULT DETECTION QUANTICATION LIMIT   AND   RESULT (narrow)
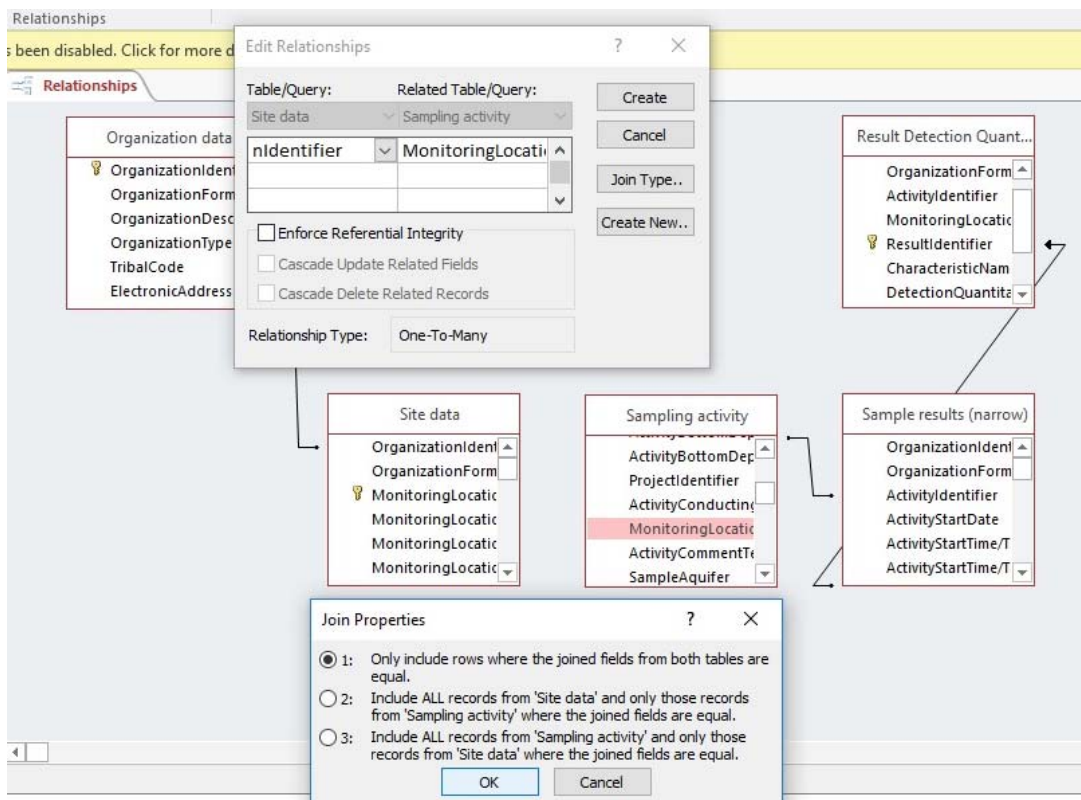   a. ResultIdentifier <=====> ResultIdentifier
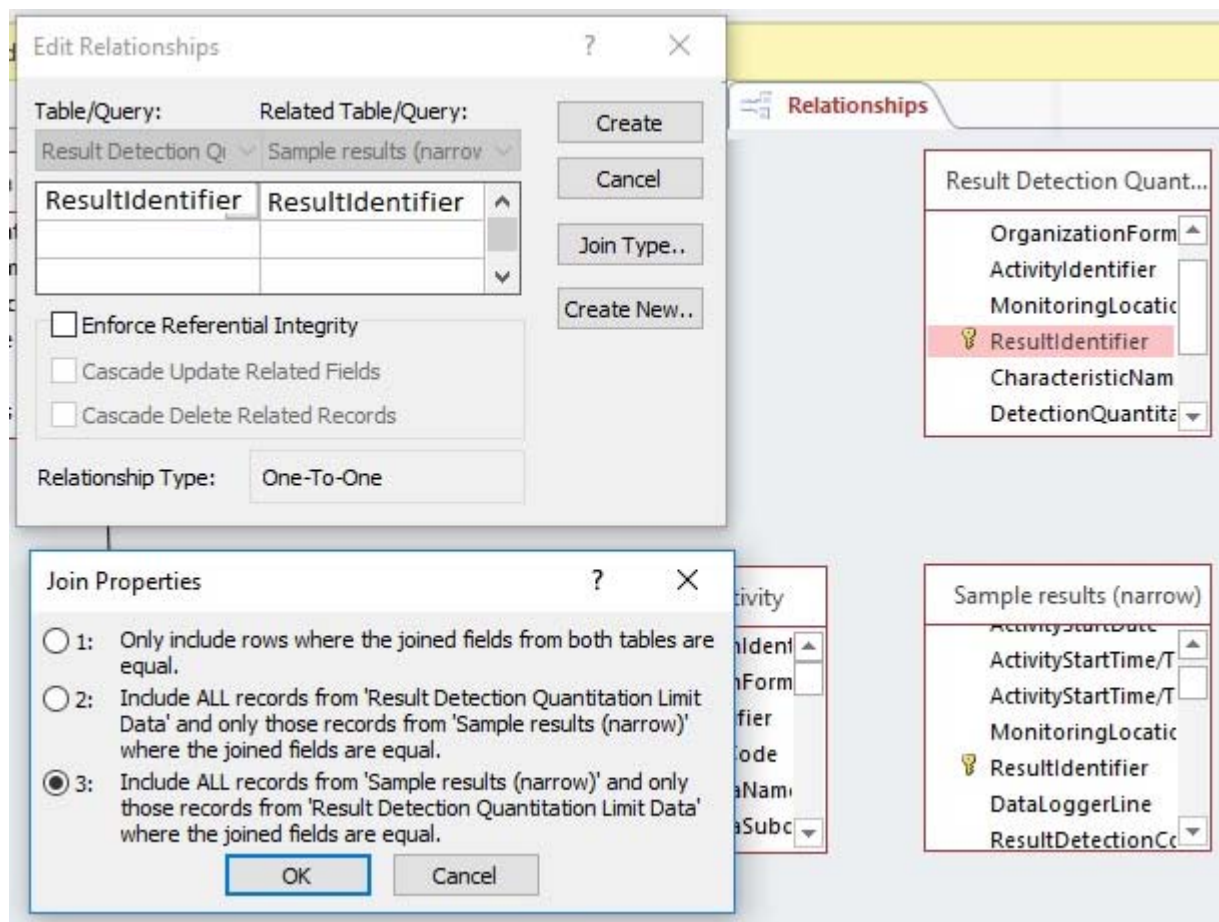
Defining the "Join Type" in MS Access as follows

1. ACTIVITY   AND   RESULT (narrow)
    a. ActivityIdentifier <=====> ActivityIdentifier
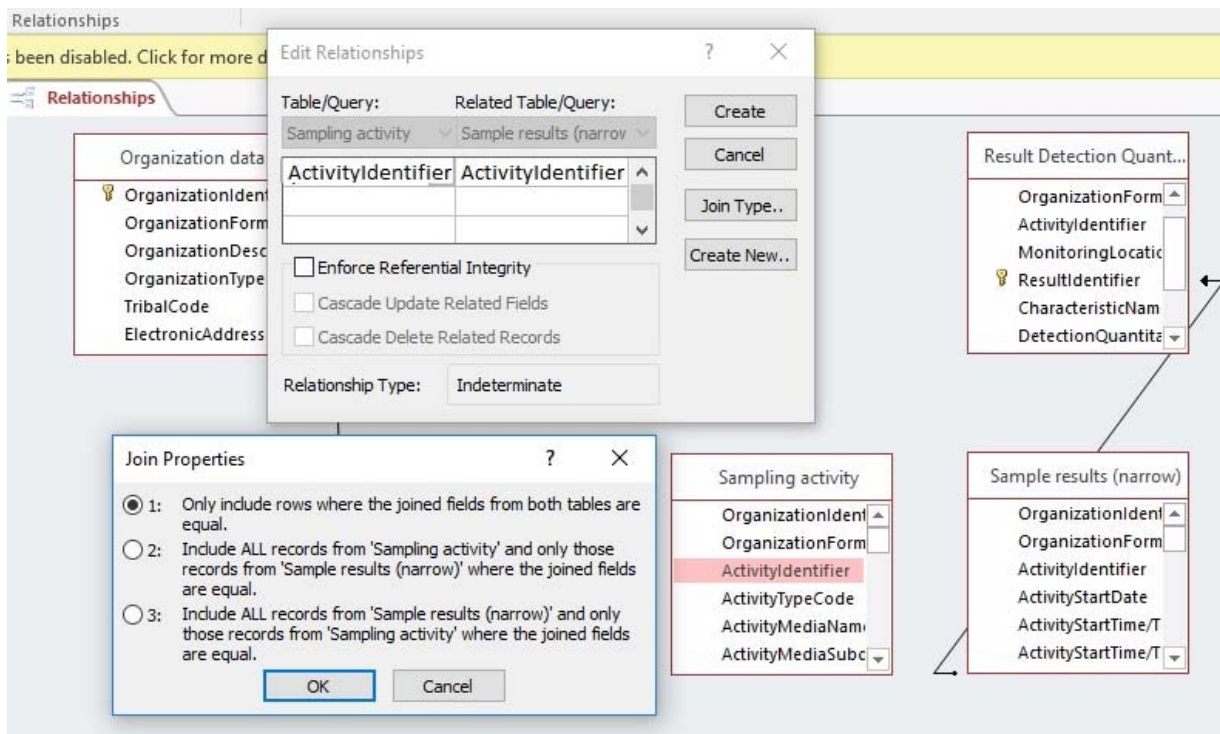
Defining the "Join Type" in MS Access as follows

1. MONITORING LOCATION   AND   RESULT (narrow)
    a. MonitoringLocationIdentifier <=====> MonitoringLocationIdentifier

RESULTS (narrow)

Table 7. *Sample result retrieval elements and definitions for the "narrow" data profile*

This data profile contains minimal data from parts of the WQX data model that are not in the "Result" section of WQX. Activity data can be linked to the activityID through ActivityID, and ResultIdentifier can be used to link to ResultDetectionQuantitationLimit data.

Narrow data profile Result Retrieval Element	Description
OrganizationIdentifier	A designator used to uniquely identify a unique business establishment within a context.
OrganizationFormalName	The legal designator (i.e. formal name) of an organization.
ActivityIdentifier	A designator used to uniquely identify a data collection project within a context of an organization.
ActivityStartDate	The calendar date on which the field activity is started.
ActivityStartTime/Time	The time of day that is reported when the field activity began, based on a 24-hour timescale.
ActivityStartTime/TimeZoneCode	The time zone for which the time of day is reported. Any of the longitudinal divisions of the earth's surface in which a standard time is kept.
MonitoringLocationIdentifier	A designator used to describe the unique name, number, or code assigned to identify the monitoring location.
ResultIdentifier	An Identifier that uniquly identifies this result in the Water Quality Portal output. This identifier is unique within an output, but not nessarily over time.
DataLoggerLine	The unique line identifier from a data logger result text file, normally a date/time format but could be any user defined name, e.g. "surface", "mD68:D86idwinter", and or "bottom".)The unique line identifier from a data logger result text file, normally a date/time format but could be any user defined name, e.g. "surface", "midwinter", and or "bottom".)
…..	…...
Etc…	…..
ProviderName	The name of the database that provided the data to the Water Qaulity portal (E.G. STORET, NWIS, STEWARDS)

RESULT DETECTION QUANTITATION LIMIT (ResultIdentifier)

Table 8. Result Detection Quantitation Limit elements and definitions.

Constituent concentration that, when processed through the complete method, produces a signal that is statistically different from a blank. There can be multiple Result Detection Quantitation limits per result, and they can be linked to results retrieved using the "narrow" result profile using ResultIdentifier.

Result Detection Quantitation Limit Element	Description
DetectionQuantitationLimitTypeName	Text describing the type of detection or quantitation limit used in the analysis of a characteristic.
DetectionQuantitationLimitMeasure/MeasureValue	The reportable measure of the result for the chemical, microbiological or other characteristic being analyzed.
DetectionQuantitationLimitMeasure/MeasureUnitCode	The code that represents the unit for measuring the chemical substance, microbiological substance or other characteristic.
ResultIdentifier	The Identifier that links a result record to a Result Detection Quantitation Limit record

ACTIVITY (ActivityIdentifier)

Table 9. Sampling Activity retrieval elements and definitions

Activity Retrieval Element	Description
OrganizationIdentifier	A designator used to uniquely identify a unique business establishment within a context.
OrganizationFormalName	The legal designator (i.e. formal name) of an organization.
MonitoringLocationIdentifier	A designator used to describe the unique name, number, or code assigned to identify the monitoring location.
ProjectIdentifier	A designator used to uniquely identify a data collection project within a context of an organization. Multiple projects may be concatenated together.
ActivityIdentifier	Designator that uniquely identifies an activity within an organization.
ActivityTypeCode	The text describing the type of activity.
Etc…	etc…
MethodSpecificationName	Identifies the chemical speciation in which the measured result is expressed.