

## Examples: Linking Object Type Tables

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Object Type tables can be linked to any Role Membership AND Relationship tables.



The screenshots in this section were generated in Power BI. The data displayed to end-users will vary depending on the settings applied and the BI used.

### Linking Object Type tables with Relationship tables

This example looks at the relationship between an Incident object type and the Incident Type object type, via the Primary Incident Type relationship. Read more here: [Object, Relationship, and Role Membership Data](#).

The above article described how in a Relationship table, the sourceId field is linked to the object id where the relationship originated and the destId is the id of the Object where the relationship is going to.

So, your data model will need to be set up as:

- Relationship Tables (public Rel Incident Primary Incident Type Current) **sourceId** field links to the Incident Tables (public Incident Current) **id** field.
- Relationship Tables (public Rel Incident Primary Incident Type Current) **destId** field links to the Incident Type (public Incident Type Current) **id** field.

The screenshot displays a data model in Power BI with three tables: 'public Incident Current', 'public Rel Incident Pri...', and 'public Incident Type ...'. The 'public Incident Current' table has columns like 'id', 'geolocationId', and 'Hours Range'. The 'public Rel Incident Pri...' table has columns like 'sourceId', 'destId', and 'sourceTypeId'. The 'public Incident Type ...' table has columns like 'id', 'Incident Category Label', and 'Incident Subcategory Value'. Relationships are shown as lines connecting 'id' in the first table to 'sourceId' in the second, and 'destId' in the second to 'id' in the third. A 'Manage relationships' dialog box is open, showing a table with the following content:

| Active                              | From: Table (Column)                                       | To: Table (Column)   |
|-------------------------------------|--|--|
| <input checked="" type="checkbox"/> | public Incident Current (id)                               | public Rel Incident Primary Incident Type Current (sourceId) |
| <input checked="" type="checkbox"/> | public Rel Incident Primary Incident Type Current (destId) | public Incident Type Current (id)                            |

Managing relationships in a data model.

The example table below created with this data model shows how:

- The Incident Current tables ID field is linked to the Relationship tables via the SourceID

field/column.

- The Relationship tables' DestID field is linked to the related Object via the related Objects' ID table field.

This data modelling allows you to report on an Incident and its related Incident Type data points (such as the Incident Type name below).

| Incident Current table and the Name and ID column set to display |      | Rel Incident Primary Incident Type table with SourceID and DestID set to display |        | Incident Type Current table with ID and Name columns set to display |                                      |
|--|------|--|--------|---|--------------------------------------|
| name   | id   | sourceid   | destid | id  | name                                 |
| 112   2021-04-15   Health & Safety                               | 1272 | 1272   | 543    | 543   | Security Breach                      |
| 113   2021-12-09   | 1386 |  |        |   |                                      |
| INC-542: 2021 - Burglary - Forced Entry                          | 1246 | 1246   | 559    | 559   | Loss/Theft of Firearm                |
| INC-542: 2021 - Job Action Strike                                | 1262 | 1262   | 553    | 553   | Near Miss - Injury                   |
| INC-554: 2021 - Health and Disease                               | 1186 | 1186   | 549    | 549   | Enforcement/Raid                     |
| INC-556: 2021 - Unauthorized Person                              | 1164 | 1164   | 545    | 545   | Stolen Property                      |
| INC-559: 2021 - Water Leak                                       | 1172 | 1172   | 549    | 549   | Enforcement/Raid                     |
| INC-563: 2021 - Burglary - Attempted                             | 1245 | 1245   | 559    | 559   | Loss/Theft of Firearm                |
| INC-565: 2021 - Suspected Counterfeit                            | 1166 | 1166   | 558    | 558   | Information Protection               |
| INC-571: 2021 - Security Breach                                  | 1183 | 1183   | 548    | 548   | Suspected Counterfeit                |
| INC-571: 2021 - Stolen Property                                  | 1221 | 1221   | 552    | 552   | Near Miss - Damage                   |
| INC-573: 2021 - Explosion  | 1173 | 1173   | 549    | 549   | Enforcement/Raid                     |
| INC-574: 2021 - Slip and Fall                                    | 1258 | 1258   | 563    | 563   | Protective Force                     |
| INC-577: 2021 - Written \ Verbal Threat                          | 1191 | 1191   | 555    | 555   | Failure to Protect Classified Matter |
| INC-580: 2021 - Sabotage of Property \ Equipment                 | 1254 | 1254   | 561    | 561   | Improper Storage of Firearms         |
| INC-590: 2021 - Special Interest Group Demonstration             | 1263 | 1263   | 553    | 553   | Near Miss - Injury                   |
| INC-592: 2021 - Elevator Entrapment                              | 1169 | 1169   | 547    | 547   | Staff Injury                         |
| INC-594: 2021 - Stolen Property                                  | 1163 | 1163   | 560    | 560   | Loss/Theft of Armored Vehicle        |
| INC-596: 2021 - Wild Fire  | 1178 | 1178   | 546    | 546   | Unauthorized Person                  |

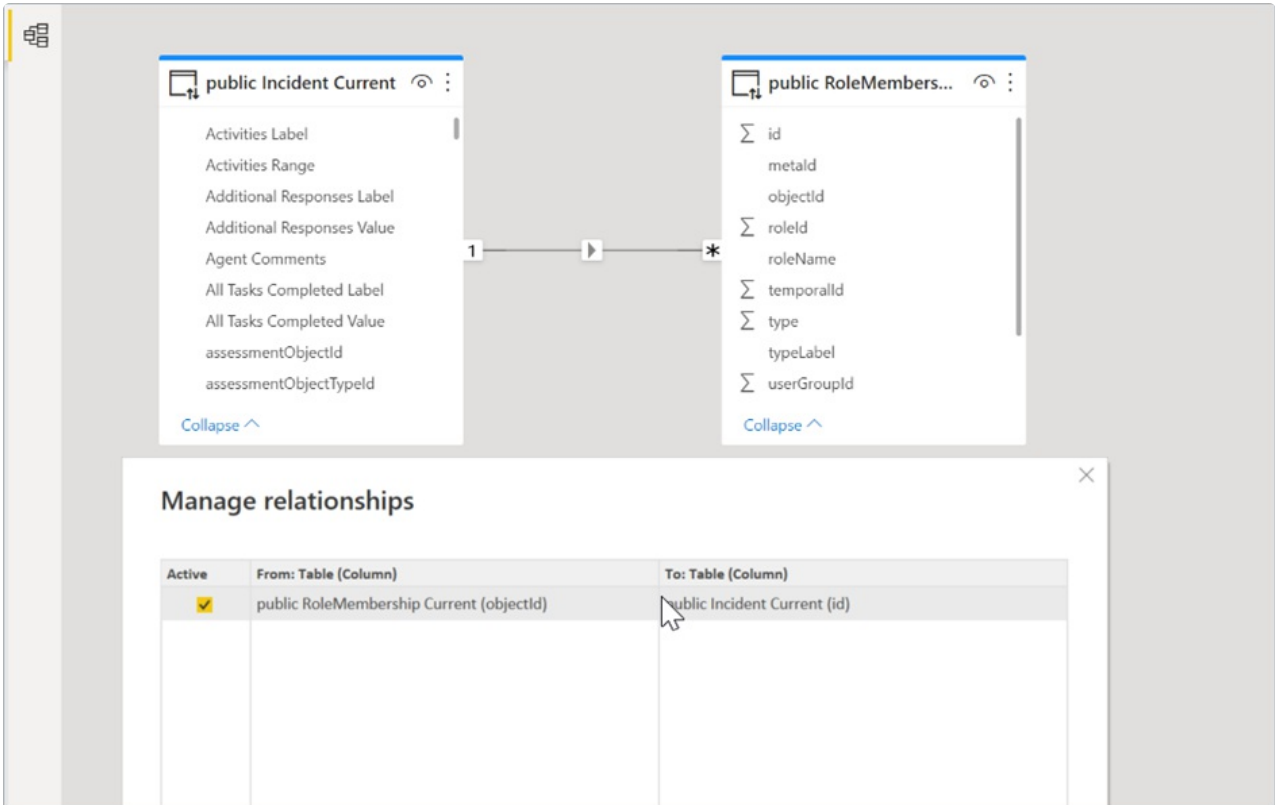
Linking Object Type tables with Relationship tables.

## Linking Object Type tables with RoleMembership tables

The example table below created with this data model shows the relationship between the Incident Object Type and the RoleMembership Table.



In a RoleMembership table, the objectid field is same as the Object id. Therefore, you must set up your data model, so the Object Type Tables id Field links to the RoleMembership Tables objectid Field.



Data model with the Object Type Tables id field linking to RoleMembership tables' ObjectId field.

The example table below created with this data model shows the Incident Current tables ID field linked to the RoleMembership tables via the objectId field/column.

This data modelling allows you to pull through an Incidents RoleMembership data points (such as the below example Incident Owner and/or any other Incident or RoleMembership data points).

| Incident Table and the Name, id and Workflow state column set to display |  |                     | Rolemembership Table and the objectId, userOrUserGroupName and roleName columns set to display |                     |                |
|--|--|---------------------|--|---------------------|----------------|
| id   | name   | workflowState Label | objectId   | userOrUserGroupName | roleName       |
| 624  | INC-995: 2021-001 Bruised Foot from forklift operation | Open                | 624  | DWH Test Guy        | Incident Owner |
| 735  | 112   2021-04-15   Health & Safety                     | Triage              | 735  | DWH Test Guy        | Incident Owner |

Data model with the Incident RoleMembership data points.