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SMT201 Geographic Information Systems   
for Urban Planning



GIS Project Group 5 (EvacConnect) – Data Dictionary

Submitted by: Marcus Tan, Seah Chi Hao & Wilfred Lim Zi Yuan

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# Spatial Data

## building\_footprint

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (Polygon) |
| **Extent** | 160766.6718750000000000,3623690.2500000000000000 : 170516.1406250000000000,3628981.5000000000000000 |
| **Feature count** | 22,490 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| latitude | Real | 0 | 0 | Latitude Coordinates |
| longitude | Real | 0 | 0 | Longitude Coordinates |
| area\_in\_meters | Real | 0 | 0 | Area of building in meters |
| confidence | Real | 0 | 0 | Confidence of actually a building |
| last\_detection\_date | String | 0 | 0 | Latest date of detection |

## building\_footprint\_centroids

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 160781.4174678580020554,3623698.3242641901597381 : 170511.5226859289978165,3628978.3875108100473881 |
| **Feature count** | 22,490 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| latitude | Real | 0 | 0 | Latitude Coordinates |
| longitude | Real | 0 | 0 | Longitude Coordinates |
| area\_in\_meters | Real | 0 | 0 | Area of building in meters |
| confidence | Real | 0 | 0 | Confidence of actually a building |
| last\_detection\_date | String | 0 | 0 | Latest date of detection |

## derna\_city\_250m\_hexagon

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 160749.4266319799935445,3623616.3563419799320400 : 170730.3036591279960703,3629169.4485164699144661 |
| **Feature count** | 361 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 7 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| id | Real | 0 | 0 | ID of hexagon |
| left | Real | 0 | 0 | Left most  x coordinate |
| top | Real | 0 | 0 | Top most  y coordinate |
| right | Real | 0 | 0 | Right most  x coordinate |
| bottom | Real | 0 | 0 | Bottom most  y coordinate |

## derna\_dams

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 165465.0468750000000000,3625280.5000000000000000 : 165465.0781250000000000,3625281.0000000000000000 |
| **Feature count** | 1 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| Name | String | 0 | 0 | Name of Dam |

## derna\_flood\_extend

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 164660.1562500000000000,3624837.5000000000000000 : 167636.9218750000000000,3627656.2500000000000000 |
| **Feature count** | 1 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| Sensor\_Date | Date | 0 | 0 | Date of sensor data |
| Area\_m2 | Real | 0 | 0 | Area in meters square |
| Area\_ha | Real | 0 | 0 | Area in hectares |

## evac

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 163022.1406250000000000,3624600.2500000000000000 : 169076.9218750000000000,3627522.5000000000000000 |
| **Feature count** | 29 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |
| pois\_pofw | String | 10 | 0 | If from pois or powf osm layer |

## evac\_centroids

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 163075.9531250000000000,3624653.2500000000000000 : 169012.3593750000000000,3627482.0000000000000000 |
| **Feature count** | 29 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |
| pois\_pofw | String | 10 | 0 | If from pois or powf osm layer |

## medical

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 164840.6079049780091736,3624606.8365399600006640 : 168946.4202651089872234,3627331.5548803298734128 |
| **Feature count** | 4 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |

## medical\_centroids

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 164913.0838585380115546,3624653.6054613301530480 : 168900.2853605989948846,3627270.1702952501364052 |
| **Feature count** | 4 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |

## PHR\_20230913\_AffectedStructure\_Derna

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 164677.4375000000000000,3625121.5000000000000000 : 167569.9843750000000000,3627543.5000000000000000 |
| **Feature count** | 2,217 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 2 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| SensorDate | Date | 0 | 0 | Date of sensor data |

## postflood\_building\_centroids

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 160783.8299408869934268,3623696.7219309997744858 : 170515.0134707399993204,3628697.1143021001480520 |
| **Feature count** | 13,663 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer64 | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |
| type | String | 20 | 0 | Type of building |

## postflood\_buildings

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 160770.2500000000000000,3623687.5000000000000000 : 170517.6718750000000000,3628706.0000000000000000 |
| **Feature count** | 13,663 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer64 | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |
| type | String | 20 | 0 | Type of building |

## postflood\_evac\_acc\_500m\_contour\_dissolved\_clipped

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 160753.8750000000000000,3623660.7500000000000000 : 170477.4687500000000000,3628409.0000000000000000 |
| **Feature count** | 10 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| cost\_level | Real | 0 | 0 | Cost level by distance |
| Num\_Affected\_Structures | Real | 0 | 0 | Number of affected structures in polygon |
| Num\_buildings\_preflood | Real | 0 | 0 | Number of preflood buildings in polygon |
| Num\_buildings\_postflood | Real | 0 | 0 | Number of postflood buildings in polygon |

## postflood\_medical\_acc\_500m\_contour\_dissolved\_clipped

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 161528.5040831009973772,3623661.2000000001862645 : 170477.4625560000131372,3628172.1235207901336253 |
| **Feature count** | 10 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| cost\_level | Real | 0 | 0 | Cost level by distance |
| Num\_Affected\_Structures | Real | 0 | 0 | Number of affected structures in polygon |
| Num\_buildings\_preflood | Real | 0 | 0 | Number of preflood buildings in polygon |
| Num\_buildings\_postflood | Real | 0 | 0 | Number of postflood buildings in polygon |

## postflood\_roads

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Line (MultiLineString) |
| **Extent** | 160753.9008008280070499,3623661.1797950901091099 : 170477.4650324470130727,3628947.7552489498630166 |
| **Feature count** | 1,417 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 11 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |
| ref | String | 20 | 0 | Reference number of road |
| oneway | String | 1 | 0 | If oneway road? “B” for both direction |
| maxspeed | Integer | 0 | 0 | Maximum Speed allowed in km/h |
| layer | Integer64 | 0 | 0 | Relative layering of roads |
| bridge | String | 1 | 0 | If bridge? |
| tunnel | String | 1 | 0 | If tunnel? |

## preflood\_medical\_acc\_500m\_contour\_dissolved\_clipped

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 160777.4062500000000000,3623762.0000000000000000 : 170480.2812500000000000,3628409.0000000000000000 |
| **Feature count** | 10 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| cost\_level | Real | 0 | 0 | Cost level by distance |
| Num\_Affected\_Structures | Real | 0 | 0 | Number of affected structures in polygon |
| Num\_buildings\_preflood | Real | 0 | 0 | Number of preflood buildings in polygon |
| Num\_buildings\_postflood | Real | 0 | 0 | Number of postflood buildings in polygon |

## preflood\_medical\_acc\_500m\_contour\_dissolved\_clipped

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Polygon (MultiPolygon) |
| **Extent** | 161511.6051177940098569,3623762.1000000000931323 : 170480.2525829999940470,3628088.5823080698028207 |
| **Feature count** | 10 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| cost\_level | Real | 0 | 0 | Cost level by distance |
| Num\_Affected\_Structures | Real | 0 | 0 | Number of affected structures in polygon |
| Num\_buildings\_preflood | Real | 0 | 0 | Number of preflood buildings in polygon |
| Num\_buildings\_postflood | Real | 0 | 0 | Number of postflood buildings in polygon |

## preflood\_roads

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Line (MultiLineString) |
| **Extent** | 160777.4059662070067134,3623762.0659223101101816 : 170480.2523205890029203,3628618.0720258499495685 |
| **Feature count** | 1,360 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 11 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| osm\_id | String | 12 | 0 | OSM ID |
| code | Integer | 0 | 0 | Feature code |
| fclass | String | 28 | 0 | Feature class |
| name | String | 100 | 0 | Name |
| ref | String | 20 | 0 | Reference number of road |
| oneway | String | 1 | 0 | If oneway road? “B” for both direction |
| maxspeed | Integer | 0 | 0 | Maximum Speed allowed in km/h |
| layer | Integer64 | 0 | 0 | Relative layering of roads |
| bridge | String | 1 | 0 | If bridge? |
| tunnel | String | 1 | 0 | If tunnel? |

## S2\_20230912\_AffectedInfrastructure\_Derna

### Information from provider

|  |  |
| --- | --- |
| **Storage** | GPKG |
| **Encoding** | UTF-8 |
| **Geometry** | Point (Point) |
| **Extent** | 160343.0312500000000000,3614892.7500000000000000 : 167288.8125000000000000,3626777.0000000000000000 |
| **Feature count** | 7 |

### Coordinate Reference System (CRS)

|  |  |
| --- | --- |
| **Name** | EPSG:3197 - LGD2006 / Libya TM zone 12 |
| **Units** | meters |
| **Method** | Transverse Mercator |
| **Celestial body** | Earth |
| **Reference** | Static (relies on a datum which is plate-fixed) |

### Fields

|  |  |
| --- | --- |
| **Primary key attributes** | fid |
| **Count** | 2 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Length** | **Precision** | **Comment** |
| fid | Integer64 | 0 | 0 | Index ID of row |
| SensorDate | Date | 0 | 0 | Date of sensor data |