

BZ10M: Bolzano Roads 2 (New) Network - Network Data Model

Import

```
imp user/pass file=/bz10m/roads2_network-1.0.dmp full=y
```

Create network (needs to be done once):

```
INSERT INTO USER_SDO_NETWORK_METADATA(  
    network, network_category, geometry_type,  
    node_table_name, node_geom_column,  
    link_table_name, link_geom_column, link_direction)  
VALUES(  
    'BZ_ROADS2_NET', 'SPATIAL', 'SDO_GEOMETRY',  
    'BZ_ROADS2_NODE$', 'GEOMETRY',  
    'BZ_ROADS2_LINK$', 'GEOMETRY', 'UNDIRECTED');
```

Current version: 1.0 (1/10/2008)

The imported network data model will contain two tables: BZ_ROADS_LINK\$ and BZ_ROADS_NODE\$

The links are taken directly from the [Spatial table](#) road segments (linestrings). The nodes are created by generating a node for each segment start and end points.

Creating index

If you want to use any spatial operators (such as finding all segments within distance, retrieving bounding rectangle etc.) you need to create an index for this table. How to do this for the LINK table (same for NODE, just substitute LINK\$ with NODE\$):

```
INSERT INTO USER_SDO_GEOM_METADATA(TABLE_NAME, COLUMN_NAME, DIMINFO)  
VALUES ('BZ_ROADS2_LINK$', 'GEOMETRY',  
    SDO_DIM_ARRAY(SDO_DIM_ELEMENT('X', -180, 180, 0.05),  
        SDO_DIM_ELEMENT('Y', -90, 90, 0.05))  
);  
CREATE INDEX BZ_ROADS2_LINK$_INDEX ON BZ_ROADS2_LINK$(GEOMETRY) INDEXTYPE IS  
MDSYS.SPATIAL_INDEX;
```

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