Database Test Plan:

|  |  |  |
| --- | --- | --- |
| **Verify** | **Test Description** | **Expected Result** |
| Insert Road information | Use SQL query to insert new road with legal values. | Road table affected, new tuple appears. |
| Insert Crossroads information | Use SQL query to insert new Crossroads with legal values. | Crossroads table affected, new tuple appears. |
| Insert Passageway information | Use SQL query to insert new Passageway with legal values. | Passageway table affected, new tuple appears. |
| Insert Weight information | Use SQL query to insert new Weight with legal values. | Weight table affected, new tuple appears. |
| Insert Place information | Use SQL query to insert new Place with legal values. | Place table affected, new tuple appears. |
| Can’t create illegal Crossroads | 1. Use SQL query to insert new crossroads. 2. Supply illegal Passageways id. | Crossroads table isn’t affected. |
| Can’t create illegal Passageway | 1. Use SQL query to insert new Passageway. 2. Supply illegal crosses roads id. | Passageway table isn’t affected. |
| Can’t create illegal Place | 1. Use SQL query to insert new Place. 2. Supply illegal road id. | Place table isn’t affected. |
| Retrieve Road Information | Use SQL query to get road data by road id. | Road table isn’t affected.  Correct information received. |
| Retrieve Crossroads Information | Use SQL query to get Crossroads data by id. | Crossroads table isn’t affected.  Correct information received. |
| Retrieve Passageway Information | Use SQL query to get Passageway data by id. | Passageway table isn’t affected.  Correct information received. |
| Retrieve Place Information | Use SQL query to get Place data by Place id. | Place table isn’t affected.  Correct information received. |
| Can’t get information with wrong id | Use SQL query to receive road information, with unknown id. | Road table isn’t affected.  Error message – unknown road. |
| DB knows how to get information from JSON | 1. Create legal json file with system information. 2. Use DB functionality to keep the information from the json file. | The json file is recognized correctly, all data spread and inserted into the correct tables by columns. |
| Get maps from DB | Use SQL query to receive map information by map id. | The correct json file describing the map id received. |