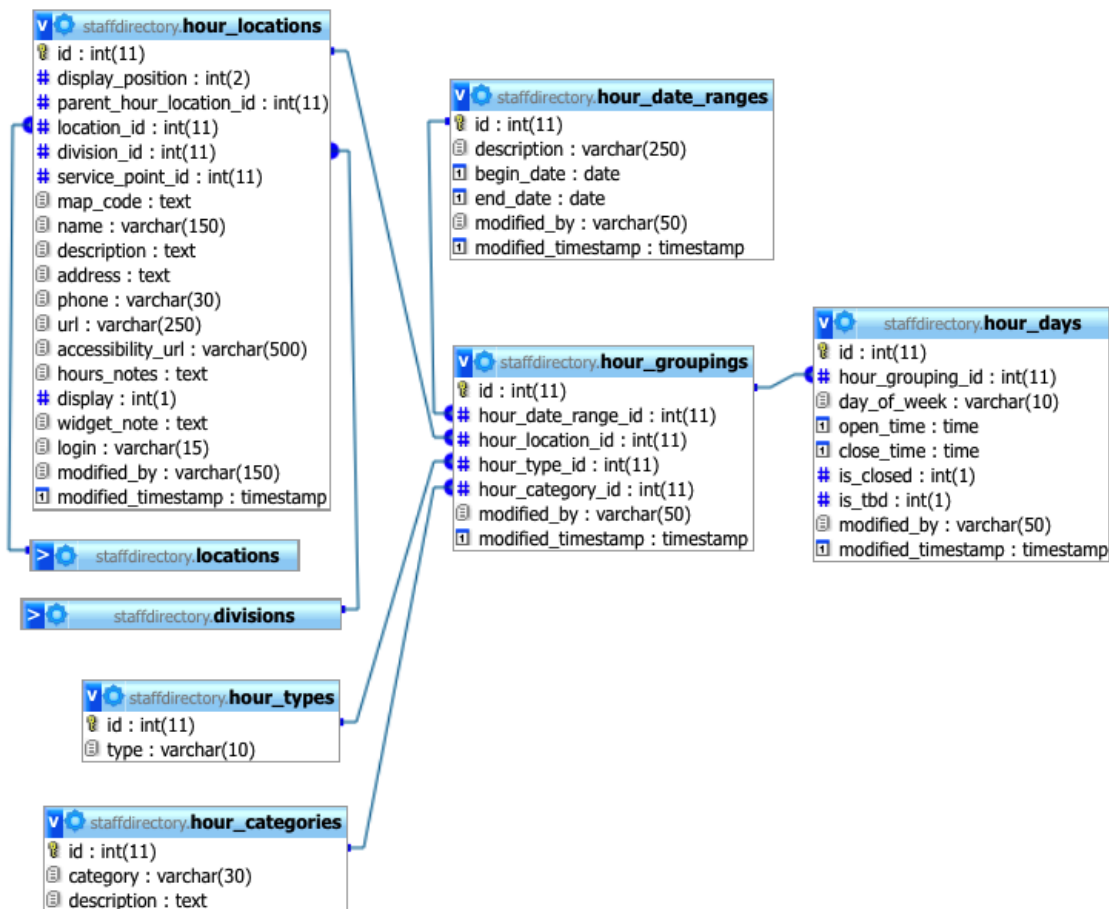


Library Hours and Locations Database Design



See **database_design.jpg** for larger, clearer view.

Location information is stored in the 'hour_locations' table.

The 'locations' and 'divisions' tables are linked to the hour_locations table for possible future integration with our staff directory application, but are not used in the current Hours & Locations application.

The 'hour_types' table is a lookup table, with current values of "library" for library operational hours, and "reference" for reference desk hours. You may also have a use for "building" hours.

The 'hour_categories' table is a lookup table, with current values of "Regular", "Interession", "Summer", "Summer Alternate", "Holiday", "Exam", and "Exception". There are places in the code that use the category ids rather than

names in conditions, for which I apologize. If you see category id 5 in the code, that is “Holiday”, and 7 is “Exception”.

The ‘hour_date_ranges’ table is also a lookup table, with begin and end dates for each date range, as well as a description.

Hours are grouped by location, date range, type, and category, and the ‘hour_groupings’ table is used to store these relationships.

The actual hours (open and close times, etc.) are stored in the ‘hour_days’ table, with the ‘hour_grouping_id’ linking the hours to the rest of the tables.