**Part H**

This section of the report is dedicated to the queries and views we have for obtaining information from the database.

**Old Queries & Views**

All of us had queries from before the central database merge: these were adapted for the new schema we have made. We have a view for every single table we have, as well as few that were made for a few basic views that would cover simple use cases. These are:

* A view for the curator to see all items currently in storage, and what they are appraised at.
* A view for the public to see all the exhibits, and how big they are, and where they are located.
* A view to show to public information on all works, based on which exhibit the work is in.
* A view to show which works are free for use, and when.
* A view to show how many more works we can add to exhibitions

**New Queries and Views**

We have expanded our capabilities accordingly with a lot of new queries and views that cover a lot of common use cases that would come up for the curators, managers, and employees of our museums. They fit into a few categories:

**Current item status**

While we have a lot of information on where our items have been and who has owned them over time, a lot of employees will want information on what their current status is, so they can find a piece or check its current exhibition. We have created several views to accommodate this:

* A view that states the current locations of all works
* A view that states its current exhibition of all works
* A view that states the current insured value of all works
* A view that summarizes all of these.

(and several things in the background to handle these).

In addition we have created procedures that can look up any item based on its identifiers(CharID,Numid, and initalEntrymuseum) to accommodate a look up system. If work was continued on the system going forward, these could be easily hooked up to a GUI for employees to use.

**History Lookup**

Our system can hold a lot of information about what happens to works over time. If anyone needs to look up this information (to check the paper trail of a work for insurance purposes, for example), our system can accommodate those needs with a set of functions:

* A function to look up the entire ownership history of an item.
* A function to look up the entire insurance history of an item, which is useful when an item is on a travelling exhibition,
* A function to look up the entire movement history of an item, to track when and where it is moved to.

**Daily and period inventories**

Sometimes, a curator or manager may want to see what business has happened over a particular day, or extended span of time. If multiple works are being bought, sold and loaned out of the system in short period of time, a summary would be helpful in checking all of them. We have accommodated this with a set of functions:

* A function to look up all transactions that occurred on a particular date as well as a variant to cover a user-definable period of time.
* A function to look up all ownership changes that occurred on a particular date as well as a variant to cover a user-definable period of time.
* A function to look up all work movements that occurred on a particular date as well as a variant to cover a user-definable period of time.

**Global Search Functions**

In addition, we have also added a few simple, common search functions to supplement the older ones we have to cover a few of the new functionalities in our central database. These are:

* A function that displays the current status and location of all works in a user-given museum.
* A function that shows all works of a given physical type in a given museum.
* A function that shows all works in a given exhibition.