Get Available State List

Task Decomp

Lock Types: Lookup State. Read-only.

Get Available State List

Number of Locks: Single.

Enabling Conditions: Triggered when report page is loading.

Frequency: Low.

Consistency (ACID): not critical.

Subtasks: Mother Task is not needed. No decomposition needed.

Abstract Code

* User clicked on ***View Store Revenue by Year by State Report*** button from **Main Menu:**
* User selects state from State drop-down.
* Display state.
* While no buttons are pushed, do nothing.
* When ***Search*** button is pushed:
* If state was selected and displayed, **Display Store Revenue by Year by State**.
* If state was not selected, populate a message saying that please select a state.

Display Store Revenue by Year by State

Task Decomp

Display Store Revenue by Year by State

Lock Types: Display Store Revenue by Year by State. Read-only.

Number of Locks: Several different schema constructs are needed.

Enabling Conditions: Display Store Revenue by Year by State triggered by successful State selection.

Frequency: Same frequency as **Get Available State List**.

Consistency (ACID): not critical.

Subtasks: Mother Task **Get Available State List** is needed. **Get Available State List** first followed by **Display Store Revenue by Year by State**. No decomposition needed.

Abstract Code

* If data validation is successful for Get Available State List and clicked on ***Search*** button, then:
* If Store and Sale are found:
* **Display Store Revenue by Year by State.**
* If Store is not found:
* Populate a message saying that store is not found in this state.
* If Store is found, but Sale is not found:
* Populate a message saying that no sale exists from stores in this state.
* When done, user selects next action from choices in **Main Menu**.

Edit Population

Edit Population

View Population

Update Population

Select City

Task Decomp

Lock Types: Lookup city, read and update population.

Number of Locks: Single.

Enabling Conditions: Population updated by successful City selection.

Frequency: Different frequencies.

Consistency (ACID): Critical. If the city population is edited by the user, category in Report 6 needs to be updated to make the database consistent.

Subtasks: Mother Task is required to coordinate subtasks. Order is necessary. Select State first followed by view population. Then, population can be updated.

Abstract Code

* User clicked on ***Population Maintenance*** button from **Main Menu:**
* User selects city from City drop-down.
* While no buttons are pushed, do nothing.
* When ***Search*** button is pushed:
* If city was selected, **View Population** in ***Population Maintenance UI***.
* If city was not selected, populate a message saying that please select a city.
* User enters updated population in input textbox.
* When ***Save*** button is pushed:
* If updated population was entered, **Update Population** and **View Population**.
* If updated population was not entered, populate a message saying that please enter population.
* When ***Cancel*** button is pushed, go to **Main Menu**.