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**Checkbook\_2.0**  
**Summary of Understanding – ETL and Data Processing  
From MyMoney to MyMoneyPublic and MyMoneyPublicR Databases**

**Prepared for**

**New York City Comptroller's Office**

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# Background

To gain an understanding of the existing ETL (Extract transform and load) process for the data provided by FISA (Financial Information Systems Agency) and to incorporate it as part of Checkbook 2.0 initiative, REI Systems was provided with ETL SSIS packages that process data sets received from FISA. This document details out REI’s understanding based on the discussions, documents and data sets provided by NYC Office and FISA.

This document has feedback from REI regarding the provided documents including understanding, questions, concerns, and request for additional information, where applicable.

# Scope

Scope of the document is to provide an extensive level of detail of publishing data from MyMoney Database (NYC Comptroller’s office) to MyMoneyPublic and MyMoneyPublicR databases hosted in Rackspace environment and maintained by REI.   
  
 MyMoneyPublic database is the source for Checkbook 1.0 and MyMoneyPublicR database is the source for MWBE (Minority and Women Based Enterprise). MyMoneyPublic and MyMoneyPublicR databases contain a subset of data elements available in the MyMoney database and FISA data feeds.

Data is independently published in both the MyMoneyPublic and MyMoneyPublicR Databases. For reasons related to “Privacy”, not all disbursements are published from MyMoney to both the MyMoneyPublic and MyMoneyPublicR databases. For the same reason some disbursements and their related vendor and contract information are masked.

Document is organized to give information on the 4 ETL Packages, an overall picture of the ETL process followed by the detailed business rules and processes involved.

# ETL Overview

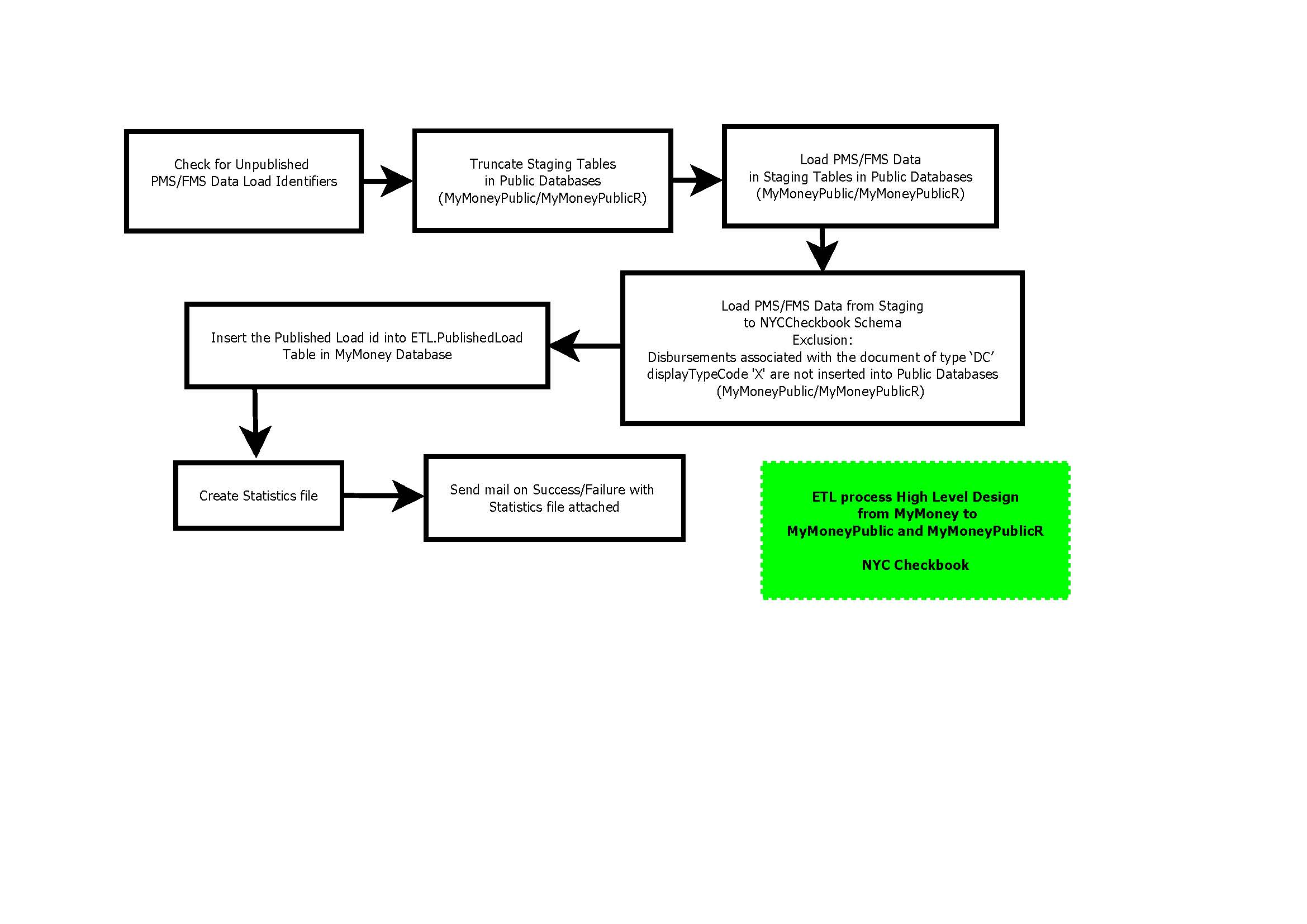
NYC Comptroller’s office uses Microsoft SQL Server Integration services (SSIS) to process the data files received from FISA. Controller package is executed with a SQL Server Agent job, scheduled to run every 30 minutes between 4:15 and 6:45 AM to load the data from FISA. This is a master package which executes the below packages in the mentioned order.

Complete details on the GetIncomingFiles, LoadCOADataLoad, LoadFMSVDataLoads, LoadCONDataLoads, LoadMAGDataLoads, LoadFMSDataLoad and LoadPMSDataLoad packages are covered in the first part of ETL document (Summary of understanding ETL -1.doc)

|  |  |  |
| --- | --- | --- |
| **Package name** | **Purpose** | **Prerequisite for the package execution** |
| *GetIncomingFiles* | FTP all eligible files for all the 6 data sources. | NA |
| *LoadCOADataLoad* | Load COA data for Department, Appropriation Unit, Expenditure Object and Location | NA |
| *LoadFMSVDataLoads* | Load Vendors | NA |
| *LoadCONDataLoads* | Load contracts which includes CT1, CTA1, CTA2, POC, PCC1, POD,DO1 | NA |
| *LoadMAGDataLoads* | Load master agreements | NA |
| *LoadFMSDataLoad* | Load Disbursements | *LoadCOADataLoad, LoadFMSVDataLoads, LoadCONDataLoads, LoadMAGDataLoads* |
| *LoadPMSDataLoad* | Load payroll summary | *LoadCOADataLoad, LoadFMSVDataLoads,* |
| *PublishFMSDataLoadsM* | Publish Disbursements Data from MyMoney to MyMoneyPublic database on Rackspace for Checkbook 1.0 | *LoadCOADataLoad, LoadFMSVDataLoads, LoadCONDataLoads, LoadMAGDataLoads, LoadFMSDataLoad,* |
| *PublishPMSDataLoadsM* | Publish Payroll Data from MyMoney to MyMoneyPublic database on Rackspace for Checkbook 1.0 | *LoadCOADataLoad, LoadFMSVDataLoads, LoadPMSDataLoad* |
| *PublishFMSDataLoadsR* | Publish Disbursement Data from MyMoney to MyMoneyPublicR database on Rackspace for MWBE. | *LoadCOADataLoad, LoadFMSVDataLoads, LoadCONDataLoads, LoadMAGDataLoads, LoadFMSDataLoad,* |
| *PublishPMSDataLoadsR* | Publish Payroll Data from MyMoney to MyMoneyPublicR database on Rackspace for MWBE. | *LoadCOADataLoad, LoadFMSVDataLoads, LoadPMSDataLoad* |

# Overview of publishing data in public databases:

Process to publish data to the public databases namely MyMoneyPublic and MyMoneyPublicR from MyMoney is similar and involves identifying the load identifiers in MyMoney which need to be published, followed by loading data into the staging/transaction tables in public database. High level illustration of this process for each of the load is given below.



## Publishing FMS data from MyMoney to MyMoneyPublic database (Checkbook 1.0)

***Execution Steps as in PublishFMSDataLoadsM.dtsx :***

1. Get the list of loaded FMS load identifiers (*LoadStatusCode* is L and *DataSource* is F) in the *ETL.DataLoad* tables which are not published in *ETL.PublishedDataLoad*.
2. Exclude publishing FMS data if there are any previously unpublished PMS data.
3. Loads must be published in the same sequence as they were loaded and processed into the MyMoney database.
4. For Each load identifier from the above step, below set of steps (5-8) are processed in a loop.
5. Truncate all data in the related staging tables. Refer to *ETL.spTruncatePublicFMSStagingTables*.
6. Load data into staging tables from MyMoney database.
7. Load data from staging tables into NYCCheckbook Schema of MyMoneyPublic database. Refer to *ETL.spPublishFMSDataLoad*
8. Insert a record into *ETL.PublishedDataLoad* table with load id and published timestamp in MyMoney database.
9. Create a Statistics log files to be attached to the mail.
10. Send mail with success/failure notification.

***Rules to Load Data from MyMoney to MyMoneyPublic staging tables:***

For any entity like vendor, disbursement etc, records are loaded into the staging tables in MyMoneyPublic from the corresponding table functions defined on the base table in MyMoney database. For example *MyMoneyPublic.NYCCheckbook.department* is merged based on the staging table *MyMoneyPublic.stage.department* which is based on *MyMoney.* *tfFMSPublicationEligibleDepartment* defined on *MyMoney.NYCCheckbook .department.* Records which have been created during the specific load under consideration are only loaded. Exclusion rules which are common for all the objects is mentioned in ‘Generic exclusion rule’ followed by the business rules associated to loading the data into the staging table for various entities.

**Generic exclusion rule:**

1. Disbursements associated with the document of type ‘DC’ which is not to be displayed (*displayTypeCode* = X) and its associated records are excluded while loading data into MyMoneyPublic Database.

***DataLoad:***

1. Insert into Stage.DataLoad table where load id is the unpublished FMS load id and LoadStatus=’L’ Loaded.

***Department:***

1. Any department which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic.stage.department* table.
2. Departments created due to the load under consideration and which are associated to disbursement line items only are inserted into the *MyMoneyPublic.stage.department* table (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleDepartment* ). However disbursements associated with the department 098 (MISCELLANEOUS) and 096 are handled differently if it falls under the below criteria.

* Disbursement line items associated with department 096 will be published against 069 and not 096.
* Disbursement line items for department 098 and associated to agreement with the department as 015 will be published against 015 and not 098.
* Disbursement line items for department 098 with one of the following expenditure objects - 4000,4140,6000,6130,6150,6220,6650,6710,6780,6810,6820,6830,6860 will be published against the department associated with an agreement.

***Appropriation Unit:***

1. Any appropriation unit which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage. AppropriationUnit* table.
2. Appropriation units created due to the load under consideration and which are associated to disbursement line items only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleAppropriationUnit* )are inserted into the *MyMoneyPublic*.*Stage. AppropriationUnit* table.

***Expenditure Object:***

1. Any expenditure object which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.ExpenditureObject* table.
2. Expenditure object created due to the load under consideration and which are associated to disbursement line items only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleExpenditureObject* ) are inserted into the *MyMoneyPublic*.*Stage.ExpenditureObject* table.

***Location:***

1. Any location which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.Location* table.
2. Location created due to the load under consideration and which are associated to disbursement line items only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleLocation* ) are inserted into the *MyMoneyPublic*.*Stage.Location* table.

***Vendor:***

1. Any Vendor which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.vendor* table.
2. Vendors related to disbursements which can be displayed in full which are created due to the load under consideration and which are associated to disbursement line items only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleVendor* ) are inserted into the *MyMoneyPublic*.*Stage.vendor* table.

***Agreement:***

1. Any agreement which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.Agreement*  table.

Agreements related to disbursements which can be displayed in full which are created due to the load under consideration and which are associated to disbursement line items only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleAgreement* ) are inserted into the *MyMoneyPublic*.*Stage.Agreement*  table.

***Disbursement:***

1. Any disbursement which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.Disbursement* table.
2. Disbursements which can be partially/fully displayed and created due to the load under consideration (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligible Disbursement*)are inserted into the *MyMoneyPublic*.*Stage.Disbursement* table.

***Disbursement Line Item:***

1. Any disbursement line item which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.DisbursementLineItem* table.
2. Line item amount is negated for any cancelled disbursement line item identified by *DisbStatus*=’C’.
3. Disbursement line items created due to the load under consideration only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleDisbLineItem*) are inserted into the *MyMoneyPublic*.*Stage.DisbursementLineItem* table.Department identifier for the disbursement is modified as mentioned below

* Disbursement line items associated with department 096 (HUMAN RESOURCES ADMINISTRATION) will be published against 069(DEPARTMENT OF SOCIAL SERVICES) and not 096.
* Disbursement line item is for department 098 (MISCELLANEOUS) and associated to agreement with the department as 015(OFFICE OF THE COMPTROLLER) will be published against 015 and not 098.
* Disbursement line item is for department 098 with one of the following expenditure objects - 4000,4140,6000,6130,6150,6220,6650,6710,6780,6810,6820,6830,6860 will be published against the department associated with an agreement.

***Disbursement Line Item Agreement:***

1. Any DisbursementLineItemAgreement which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.DisbursementLineItemAgreement* table.
2. DisbursementLineItemAgreement records created due to the load under consideration are inserted into the *MyMoneyPublic*.*Stage.DisbursementLineItemAgreement* table.

***Disbursement Line Item Location:***

1. Any DisbursementLineItemLocation which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublic*.*Stage.DisbursementLineItemLocation*table.
2. DisbursementLineItemLocation records created due to the load under consideration (Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleDisbLineItemLocation*) are inserted into the *MyMoneyPublic*.*Stage.DisbursementLineItemLocation*table.

***Rules to Load data from Staging to NYCCheckbook Schema:***

The business rules associated when moving the staged data to the transaction table in MyMoneyPublic database is listed below for each of the entities.

1. If the FMS load under consideration is not staged, then no further action is taken.
2. If the FMS load under consideration is published, then no further action is taken.
3. Insert a row in ETL.PublishedDataLoad table with the processing Load identifier, DataSourceCode as “F” and Published Timestamp as Current Timestamp from stage.DataLoad table.

***Vendor:***

1. A row is inserted into *NYCCheckbook.Vendor* table when a row in *Stage.Vendor* table identified by Vendorid is not available in *NYCCheckbook.Vendor* table.

***Disbursement:***

1. All rows are inserted into *NYCCheckbook.Disbursement* table from *Stage.Disbursement*.
2. Disbursements with DisplayTypeCode=P (Partially Displayed) are associated to a vendor with the name as ‘N/A (PRIVACY/SECURITY)’, VendorCode as ‘N/A’ and vendorSubCode as 0 , since vendor information is not to be displayed public.

***Department:***

1. A row is inserted into *NYCCheckbook.Department* table when a row in *Stage.Department* table identified by departmentid is not available in *NYCCheckbook.Department* table.
2. A row is updated in *NYCCheckbook.Department* table (DeptDisplayOrder) when a row in *Stage. Department* table identified by departmentid is available in *NYCCheckbook.Department* table.

***Appropriation Unit:***

1. A row is inserted into *NYCCheckbook.AppropriationUnit* table when a row *in Stage. AppropriationUnit* table identified by AppropriationUnitID is not available in *NYCCheckbook.AppropriationUnit*.

***Expenditure Object:***

1. A row is inserted into *NYCCheckbook.ExpenditureObject* table when a row in *Stage. ExpenditureObject* table identified by ExpenditureObjID is not available in *NYCCheckbook.ExpenditureObject*.

***Disbursement Line Item:***

1. All rows are inserted into *NYCCheckbook.DisbursementLineItem* table from *Stage. DisbursementLineItem* table

***Agreement:***

1. A row is inserted into *NYCCheckbook. Agreement* table when a row in *Stage.Agreement* table identified by AgreementID is not available in *NYCCheckbook. Agreement*.

***Location:***

1. A row is inserted into *NYCCheckbook. Location* table when a row in *Stage. Location* table identified by location id is not available in *NYCCheckbook. Location*.

***Disbursement Line Item Agreement:***

1. All rows are inserted into *NYCChecbook. DisbursementLineItemAgreement* table from *Stage. DisbursementLineItemAgreement* table.
2. DisbursementLineItemAgreement records associated with Disbursements having DisplayTypeCode=P (Partially Displayed) are associated with AgreementDocID as ‘N/A (PRIVACY/SECURITY)’, AgreementDocCode as ‘N/A’ and AgreementDocDeptCode as ‘’ , since sensitive agreement information is not to be displayed to the public

***Disbursement Line Item Location:***

1. All rows are inserted into *NYCCheckbook.DisbursementLineItemLocation* table from *Stage. DisbursementLineItemLocation* table.

***Agreement Detail:***

1. A row is inserted into NYCCheckbook.AgreementDetail table when a row in Stage.AgreementDetail table identified by AgreementID is not available in NYCCheckbook.AgreementDetail.

***Disbursement Line Item Agreement Detail:***

1. All rows are inserted into *NYCCheckbook.DisblineitemAgreementDetail* table from *Stage. DisblineitemAgreementDetail*.
2. DisbLineItemAgreementDetail records associated with Disbursements having DisplayTypeCode=P (Partially Displayed) are associated with AgreementDocID as ‘N/A (PRIVACY/SECURITY)’, AgreementDocCode as ‘N/A’ and AgreementDocDeptCode as ‘’ , since sensitive agreement information is not to be displayed to the public

***Disbursement Line Item MWBE Category:***

1. All rows are inserted into *NYCCheckbook. DisbursementLineItemMWBECategory* table from *Stage. DisbursementLineItemMWBECategory* table.

***Disbursement Line Item Industry Type:***

1. All rows are inserted into *NYCCheckbook.DisbursementLineItemIndustryType* table from *Stage. DisbursementLineItemIndustryType* table.

***VendorAddress:***

1. A row is inserted into *NYCCheckbook. VendorAddress* table when a row in *Stage.VendorAddress* table identified by VendorAddressId is not available in *NYCCheckbook. VendorAddress*.

***Disbursement Vendor Address:***

1. All rows are inserted into *NYCCheckbook.DisbursementVendorAddress* table which have an association with DisbursementID in *Stage.Disbursement* table.
2. DisbursementVendorAddress records associated with Disbursements having DisplayTypeCode=P (Partially Displayed) are associated with Vendor having StreetAddrLine1 as 'N/A (PRIVACY/SECURITY)'

***FMSVendorMWBECategory:***

1. A row is updated in *NYCCheckbook.FMSVendorMWBECategory* when a row in *Stage. FMSVendorMWBECategory* identified by Vendor Code is available in *NYCCheckbook.FMSVendorMWBECategory*.
2. A row is inserted into *NYCCheckbook.FMSVendorMWBECategory* when a row in *Stage. FMSVendorMWBECategory* identified by Vendor Code is not available in *NYCCheckbook.FMSVendorMWBECategory*.
3. A row is deleted in *NYCCheckbook.FMSVendorMWBECategory* when a corresponding row identified by Vendor Code is not available in *Stage.FMSVendorMWBECategory*.

## Publishing PMS data from MyMoney to MyMoneyPublic database (Checkbook 1.0)

***Execution Steps as in PublishPMSDataLoadsM.dtsx :***

1. Get the List of Loaded PMS identifiers (LoadStatusCode=’L’ and DataSource=’P’) in the *ETL.DataLoad* tables which are not published in *ETL.PublishedDataLoad* table in MyMoney database .
2. Exclude publishing PMS Data if there are any previously unpublished FMS Data.
3. Load must be published in the same sequence as they were loaded and processed in the MyMoney Database.
4. For Each Load Identifier from the above steps, below (5-8) steps are processed in a Loop.
5. Truncate public PMS staging tables Refer to *ETL.spTruncatePublicPMSStagingTables*
6. Load PMS data into staging tables from MyMoney Database.
7. Load PMS Data from staging into NYCCheckbook Schema of MyMoneyPublic database. Refer to *ETL.spPublishPMSDataLoad.*
8. Insert a record into *ETL.PublishedDataLoad* table with load id and published timestamp in MyMoney Database.
9. Generate Statistics log file
10. Send email notification on Success/failure with statics attachment.

***Rules to Load Data from MyMoney to MyMoney Public staging tables:***

Records which have been created during the specific load under consideration are only loaded. Data is loaded for the 3 entities namely department, appropriation unit & payroll summary. It is important to note that the structure of payroll summary table in MyMoney is different from MyMoneyPublic since expenditure object, payroll number id and budget are not considered in MyMoneyPublic. Business rules associated to loading the data into the staging table for various entities are listed below.

***Data Load:***

1. Insert into Stage.DataLoad table where load id is the unpublished PMS load identifier and LoadStatus=’L’

***Department:***

1. Departments created due to the load under consideration and which are associated to PayrollSummary only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfPMSPublicationEligibleDepartment*) are inserted into the *MyMoneyPublic.stage.Department* table

***Appropriation Unit:***

1. Appropriation units created due to the load under consideration and which are associated to PayrollSummary only (Refer to the table-valued function *MyMoney.NYCCheckbook. tfPMSPublicationEligibleAppropriationUnit*) are inserted into the *MyMoneyPublic.stage.AppropriationUnit* table.

***Payroll Summary:***

1. Records are inserted into *MyMoneyPublic.stage.PayrollSummary* by rolling up the Payroll amount at DepartmentID, AppropriationUnitID, PayCycleCode, FiscalYear, PayDate level for all the payroll summary records created due to the load under consideration (Refer to the table-valued function *MyMoney.NYCCheckbook. tfPMSPublicationEligiblePayrollSummary)* .

***Rules to Load Data from staging tables to NYCCheckbook Schema***

The business rules associated when moving the staged data to the transaction table in MyMoneyPublic database is listed below for each of the entities.

1. If the PMS load under consideration is not staged, then no further action is taken.
2. If the PMS load under consideration is published, then no further action is taken.
3. Insert a row in ETL.PublishedDataLoad table with the processing Load identifier, DataSourceCode as “P” and Published Timestamp as Current Timestamp from stage.DataLoad table.

***Department:***

1. A row is inserted into *NYCCheckbook.Department* table when a row in *Stage.Department* table identified by departmentid is not available in *NYCCheckbook.Department* table.
2. A row is updated in *NYCCheckbook.Department* table (DeptDisplayOrder) when a row in *Stage. Department* table identified by departmentid is available in *NYCCheckbook.Department* table.

***Appropriation Unit:***

1. A row is inserted into *NYCCheckbook.AppropriationUnit* table when a row *in Stage. AppropriationUnit* table identified by AppropriationUnitID is not available.

***Payroll Summary:***

1. A row is updated (PayrollAmount, LastUpdateLoadid) in *NYCCheckbook.PayrollSummary* table when a row in *Stage.PayrollSummary* table identified by Departmentid, AppropriationUnitId, PaycycleCode, FiscalYear and PayDate is available.  
   Note: PayrollAmount=PayrollAmount + sum(PayrollAmount).
2. A row is inserted into *NYCCheckbook.PayrollSummary* table when a row in *Stage. PayrollSummary* table identified by Departmentid, AppropriationUnitId, PaycycleCode, FiscalYear and PayDate is not available.

## Publishing FMS data from MyMoney to MyMoneyPublicR database (MWBE)

***Execution Steps as in PublishFMSDataLoadsR.dtsx :***

Execution steps are similar to the one followed when publishing FMS data to MyMoneyPublic database. There are few entities which are made available in MyMoneyPublicR in addition to the ones in MyMoneyPublic. Business rules associated with these entities are only discussed.

***Rules to Load Data from MyMoney to MyMoneyPublicR staging tables:***

For any entity like vendor, disbursement etc, records are loaded into the staging tables in MyMoneyPublicR from the corresponding table functions defined on the base table in MyMoney database. For example *MyMoneyPublicR.NYCCheckbook.department* is merged based on the staging table *MyMoneyPublicR.stage.department* which is based on MyMoney. *tfFMSPublicationEligibleDepartment* defined on *MyMoney.NYCCheckbook .department.*

***Disbursement Line Item Industry Type:***

1. Any DisbursementLineItemIndustryType which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.DisbursementLineItemIndustryType* table.
2. DisbursementLineItemIndustryType records created due to the load under consideration (Refer to the table-valued function *MyMoney.NYCCheckbook.tfFMSPublicationEligibleDisbursementLineItemIndustryType*) are inserted into the *MyMoneyPublicR.Stage.DisbursementLineItemIndustryType* table.

***Disbursement Line Item Agreement Detail:***

1. Any DisbursementLineItemAgreementDetail which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.DisbLineItemAgreementDetail* table.
2. DisbursementLineItemAgreementDetail records created due to the load under consideration (Refer to the table-valued function *MyMoney.NYCCheckbook.tfFMSPublicationEligibleDisbLineItemAgreementDetail*)are inserted into the *MyMoneyPublicR.Stage.DisbLineItemAgreementDetail* table.

***Agreement Detail:***

1. Any AgreementDetail which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.AgreementDetail* table.
2. AgreementDetail records which are associated to a Disbursement with DisplayTypeCode “P” (Partially Displayed) are not inserted.
3. AgreementDetail records created due to the load under consideration ( Refer to the table-valued function *MyMoney.NYCCheckbook.tfFMSPublicationEligibleAgreementDetail*) are inserted into the *MyMoneyPublicR.Stage.AgreementDetail* table.

***Vendor Address:***

1. Any VendorAddress which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.VendorAddress* table.
2. VendorAddress records associated to disbursements and which are created due to the load under consideration (Refer to the table-valued function *MyMoney.NYCCheckbook.tfFMSPublicationEligibleVendorAddress*) are inserted into the *MyMoneyPublicR.Stage.VendorAddress* table.
3. VendorAddress records associated to a disbursement with DisplayTypeCode “P” (Partially Displayed) are not inserted.

***Disbursement Vendor Address:***

1. Any DisbursementVendorAddress which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.DisbursementVendorAddress* table..
2. DisbursementVendorAddress records created due to the load under consideration(Refer to the table-valued function *MyMoney.NYCCheckbook. tfFMSPublicationEligibleDisbursementVendorAddress*) are inserted into the *MyMoneyPublicR.Stage.DisbursementVendorAddress* table.

***Master Agreement Detail:***

1. Any MasterAgreementDetail which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.MasterAgreementDetail* table.
2. MasterAgreementDetail records associated with disbursement line items and which are created due to the load under consideration(Refer to table-valued function *MyMoney.NYCCheckbook.* *tfFMSPublicationEligibleMasterAgreementDetail*) are inserted into the *MyMoneyPublicR.Stage.MasterAgreementDetail* table.
3. MasterAgreementDetail records which are associated to a Disbursement with DisplayTypeCode “P” (Partially Displayed) are not inserted.

***FMSVendor MWBE Category:***

1. All records from *MyMoney.NYCCheckbook.FMSVendorMWBECategory* (Refer to *MyMoney.NYCCheckbook.tfFMSPublicationEligibleFMSVendorMWBECategory*) are inserted into the *MyMoneyPublicR.Stage*.*FMSVendorMWBECategory* table.

***Disbursement LineItem MWBE Category:***

1. Any DisbursementLineItemMWBECategory which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.tfFMSPublicationEligibleDisbursementLineItemMWBECategory* table.
2. DisbursementLineItemMWBECategory associated with disbursement line items and which are created due to the load under consideration(Refer to table-valued function *MyMoneyPublicR.Stage.tfFMSPublicationEligibleDisbursementLineItemMWBECategory* ) are inserted into the *MyMoneyPublicR.Stage.tfFMSPublicationEligibleDisbursementLineItemMWBECategory* table.

***Disbursement Line Item Master Agreement Detail:***

1. Any DisbLineItemAgreementDetail which is associated to “Generic exclusion rule” are not inserted into the *MyMoneyPublicR.Stage.DisbLineItemMasterAgrDetail* table.
2. Any DisbLineItemAgreementDetail which is not associated to a Disbursement or a Disbursement Lineitem from the processing load id is not inserted into the destination table.
3. DisbLineItemAgreementDetail records associated with disbursement line items and which are created due to the load under consideration (Refer to table-valed function MyMoney.NYCCheckbook. *tfFMSPublicationEligibleDisbLineItemMasterAgrDetail*)are inserted into the *MyMoneyPublicR.Stage.DisbLineItemMasterAgrDetail* tables.

***Rules to Load data from Staging to MyMoneyPublicR.NYCCheckbook Schema:***

***Master Agreement Detail:***

1. A row is inserted into *NYCCheckbook.MasterAgreementDetail* when a row in *Stage. MasterAgreementDetail* identified by MasterAgreementDetailID is not available in *NYCCheckbook.MasterAgreementDetail*.

***Disb Line Item Master Agreement Detail:***

1. A row is inserted into *NYCCheckbook.DisbLineItemMasterAgrDetail* when a row in *Stage. DisbLineItemMasterAgrDetail* identified by MasterAgreementID is not available in *NYCCheckbook.DisbLineItemMasterAgrDetail*.
2. DisbLineItemMasterAgrDetail records associated with Disbursements having DisplayTypeCode=P (Partially Displayed) are associated with AgreementDocID as ‘N/A (PRIVACY/SECURITY)’, AgreementDocCode as ‘N/A’ and AgreementDocDeptCode as ‘’.

## Publishing PMS data from MyMoney to MyMoneyPublicR database (MWBE)

Execution steps are similar to the one followed when publishing PMS data to MyMoneyPublic database.

# Questions

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| --- | --- |
| **#** | **Question** |
| 1 | It is observed that several tables (the ones highlighted in red in this document) are populated in NYCCheckbook of MyMoneyPublic database when the corresponding staging tables are not loaded with the data from the corresponding base tables in MyMoney database. For instance *AgreementDetail, DisblineitemAgreementDetail, DisbursementLineItemMWBECategory, DisbursementLineItemIndustryType, VendorAddress, DisbursementVendorAddress, FMSVendorMWBECategory and FMSVendorMWBECategory* |
| 2 | Objects like departments are loaded in MyMoney only when there are disbursement line items associated to it.Similar validation is done when loading data from MyMoney to staging tables of MyMoneyPublic database.Is there any specific reason for doing this as the second validation seems to be redundant. |
| 3 | Display type is changed for certain disbursements in MyMoneyPublic database using the procedure *spAdjustDisbursementDisplayType*. However we couldn’t trace the invocation of this from the SSIS packages. Is this being used? If it is , from where it is invoked? Also the details of the disbursements are stored in the table AdjustedDisplayTypeDisbursement along with version number. As always the latest version is stored in the transaction table, is it really required to capture this detail? Also how is this table being populated? |