This document consists of the following sections.

1. **Database servers and Credentials**

Self-explanatory

1. **Hotel Company Query**

This section will describe the query used to get the list of records and attempt to give a brief description of the tables and columns involved

1. **Download Giata Information**

This will describe the process by which Giata mapping is downloaded for given supplier records.

1. **Identifying 1 : m and m : 1 between MHId and GiataId**

This will describe a script to identify the 1: m and m: 1 and send the conflicts downstairs for curation.

1. **Validating the curated sheet from the content team**

The content team will work on the 1 : m and m : 1 conflicts generated above and will be sending the corrected mappings. Ranga will work on scripts to update the copy of static data and Satya works on updating the live database. It is of paramount importance to verify that the live database has been updated before proceeding to download the MasterHotel information from the contenthub’s end point.

1. **Ttss No Content Report**

Another important source for supplier apart from Hotel Company is Ttss’ No Content Report (<http://manage.text.ttss.net/reports/TeletextNoContentExport.csv.zip>).

1. **Database Servers and Credentials**
2. Hotel Company’s database
   1. Server – 192.168.88.162
   2. User name – staticdata
   3. Password – static@123
3. Local SQL Server 2016
   1. Server – 10.0.15.204
   2. User name – sa
   3. Password – teletextalpha@123
4. **Hotel Company Query**

The following is a list of tables involved in the query.

1. **[StaticData].[dbo].[HotelStaticData]**

This table contains all the supplier related records with [HotelStaticID] as the primary key in this table. The following are the columns, which are of importance and are involved for filtering purposes:

1. **HotelStaticID**

This column is an identity column and is the clustered primary key column for this table.

1. **GDSID**

This column forms a nonclustered index on the table and corresponds to the GDSID column of [StaticData].[dbo].[GDSSuppliers] table. There is another table with the same name present in the [HotelCompany] database ([HotelCompany].[dbo].[GDSSuppliers]). I am not sure which of these tables is updated to when a new supplier is added/modified. Please check HotelCompany to find out.

1. **AccommodationID**

This column refers to the SupplierHotelId sent by the respective supplier.

1. **GatewayCode**

This refers to the three-letter IATA code sent by the supplier. This directly maps to the particular destination. For e.g., GatewayCode “PMI” refers to Majorca destination

1. **MasterHotelID**

If the value of MasterHotelID = 0 then the hotel is unmapped.

If the value of MasterHotelID > 0 then the hotel has been mapped.

1. **MasterResortID**

This forms the nonclustered index on this table.

1. **IndexFlag –**

More information will be provided by the HotelCompany team but for unmapped hotels (MasterHotelID = 0), IndexFlag should be 1 when the query is being generated

1. **ChainCode –**

I am not certain what this column means but this column is used in the ‘where’ condition of the query as follows

HotelStaticData.ChainCode = (CASE

WHEN HotelStaticData.GDSID = 10 THEN 'H4U'

ELSE HotelStaticData.ChainCode

END)

1. **[StaticData].[dbo].[GdsGatewayForHotelsMapping]**

This table contains mapping of GatewayCodes (AirportCodes) and GDSID that have to be sold. If the ShowStatus column is ‘0’ then for some reason, the GatewayCode for a particular supplier is not to be sold. The query is as follows:

SELECT

ggfhm.AirportCode

,ggfhm.GDSID

FROM GdsGatewayForHotelsMapping AS ggfhm

WHERE ggfhm.ShowStatus = 1

1. **[StaticData].[dbo].[MasterHotels]**

This table contains the mapping for MasterHotels. Per my understanding, there will be a record created for each hotel. The MasterHotelID column in HotelStaticData will be populated with the MasterHotelID value from MasterHotels table. There are many columns but in my view, the following columns are of importance and are referred to in the query:

1. **MasterHotelID**

This is the identity column.

1. **BuildingName**

This refers to the Hotel Name for that master hotel

1. **DefaultGatewayCode**

This refers to the GatewayCode (AirportCode) for the master hotel.

1. **MasterResortID**

The resort that this hotel belongs to

1. **Deleted**

This value refers to whether the master hotel has been deleted or not. I am not sure how this column is populated but it will be good to understand this from Hotel Company team.

1. **[StaticData].[dbo].[NotSellingHotels]**

This table contains all the Hotels that are not being sold. It only consists of one column, HotelStaticId referring to the HotelStaticID column of [StaticData].[dbo].[HotelStatic] table.

The query is as follows

DECLARE @GdsidList VARCHAR(2000)

SET @GdsidList = '1,5,6,7,8,10,14,15,16,18,23,24,25,26,29,30,35,36,38,39,40,41,42,43,44,47,48,52,53,55,58,99,101'

SELECT

hsd.HotelStaticID

,hsd.MasterHotelID

,hsd.GDSID

,g.GDSName

,hsd.AccommodationID

,hsd.GatewayCode

,hsd.ResortID AS GdsResortCode

,hsd.ResortName AS GdsResortName

,hsd.StarRating

,hsd.Latitude AS SupplierLatitude

,hsd.Longitude AS SupplierLongitude

,dbo.CleanAndTrim(hsd.AddressLineOne) AS SupplierAddressLine1

,dbo.CleanAndTrim(hsd.AddressLineTwo) AS SupplierAddressLine2

,dbo.CleanAndTrim(hsd.AddressLineThree) AS SupplierAddressLine3

,hsd.IndexFlag

,mh.BuildingName AS MasterHotelName

,mh.MasterResortID

,mr.ResortName AS MasterResortName

,dbo.CleanAndTrim(hsd.HotelName) AS SupplierHotelName

,c.CountryName

,c.CountryCode

,d.DestinationCode

,mh.Latitude AS MasterLatitude

,mh.Longitude AS MasterLongitude

,mh.Deleted

,mh.CityTown

,dbo.CleanAndTrim(mh.AddressLine1) AS MasterHotelAddressLine1

,dbo.CleanAndTrim(mh.AddressLine2) AS MasterHotelAddressLine2

,dbo.CleanAndTrim(mh.AddressLine3) AS MasterHotel

FROM dbo.HotelStaticData AS hsd

INNER JOIN (SELECT

ggfhm.AirportCode

,ggfhm.GDSID

FROM GdsGatewayForHotelsMapping AS ggfhm

WHERE ggfhm.ShowStatus = 1) AS gateway\_mapping

ON gateway\_mapping.AirportCode = hsd.GatewayCode

AND gateway\_mapping.GDSID = hsd.GDSID

LEFT JOIN dbo.MasterHotels AS mh

ON hsd.MasterHotelID = mh.MasterHotelID

LEFT JOIN dbo.MasterResorts AS mr

ON mh.MasterResortID = mr.MasterResortID

LEFT JOIN dbo.Destinations AS d

ON d.DestinationCode = mr.DefaultAirportCode

LEFT JOIN dbo.Countries AS c

ON c.CountryCode = d.CountryCode

LEFT JOIN GDSSuppliers AS g

ON g.GDSID = hsd.GDSID

WHERE hsd.GDSID IN (SELECT

dbo.CleanAndTrim(value)

FROM dbo.SplitDelimited(@GdsidList, ','))

AND hsd.ChainCode = (CASE

WHEN hsd.GDSID = 10 THEN 'H4U'

ELSE hsd.ChainCode

END)

AND hsd.HotelStaticID NOT IN (SELECT

HotelStaticID

FROM NotSellingHotels)

AND (mh.Deleted = 0

OR mh.Deleted IS NULL)

--AND hsd.IndexFlag = 1 AND hsd.MasterHotelID = 0 --(uncomment this if you are only looking for unmapped hotels)

--AND hsd.MasterHotelID > 0 --(uncomment this if you are only looking for mapped hotels)

ORDER BY hsd.MasterHotelID, hsd.GDSID, hsd.AccommodationID

1. **Download Giata Information**

The above query gives us the list of hotels, which we need to download the Giata information. The output of the above query is first stored in a table. The table is present in [10.0.15.204].[HotelCompanyStaticDataDump] database. For instance, the name of the table could be [dbo].[HotelStaticData\_02\_07\_2017]

For this purpose, there is a GiataApi solution present at **$/Teletext Backend/TeletextTools/GiataApi** in TFS. There are multiple projects present within this solution that cater to different needs. But, all of them have the following steps to be followed:

1. Retrieve a list of records for which Giata needs to be downloaded. This is usually done via a stored procedure. The following is the stored procedure, which is being used for this very purpose. There is one input parameter to this stored procedure @InsertRemainingParams which has either ‘0’ or ‘1’.

@InsertRemainingParams = 0 then we are downloading Giata information for ALL the records.

@InsertRemainingParams = 1 then we are downloading Giata Information for records which were not downloaded in the earlier run.

**HotelStaticData\_GHI\_02\_06\_2017** in the stored procedure refers to the “Giata Header Information” which has GiataId, GiataCity, GiataLatitude, GiataLongitude, etc.

**Common.dbo.GdsIdToGiataProviderCode** contains mapping between the GdsId and GiataProviderCode. Should you find any new Giata provider codes or any errors in the existing mapping, please edit this table and the stored procedure will use the newly added mappings.

USE [HotelCompanyStaticDataDump]

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

/\*

EXEC dbo.Get\_HotelCompanyListForGiataDownload @InsertRemainingParams = 0

\*/

CREATE PROCEDURE [dbo].[Get\_HotelCompanyListForGiataDownload] @InsertRemainingParams INT = 0

AS

BEGIN

IF @InsertRemainingParams = 0

BEGIN

SELECT

hsd.HotelStaticID

,hsd.MasterHotelID

,hsd.GDSID

,hsd.GDSName

,gitgpc.GiataProviderCode

,hsd.AccommodationID

,hsd.GatewayCode

,hsd.GdsResortCode

,hsd.GdsResortName

,hsd.StarRating

,hsd.SupplierLatitude

,hsd.SupplierLongitude

,hsd.MasterHotelName

,hsd.SupplierHotelName

,hsd.CountryName

,hsd.CountryCode

,hsd.DestinationCode

,hsd.MasterLatitude

,hsd.MasterLongitude

,hsd.CityTown

,hsd.AddressLine1

,hsd.AddressLine2

,hsd.AddressLine3

,hsd.MasterResortID

,hsd.MasterResortName

,hsd.Deleted

FROM dbo.HotelStaticData\_02\_06\_2017 AS hsd

LEFT JOIN Common.dbo.GdsIdGdsNameToBeExported gigntbe

ON hsd.GDSID = gigntbe.GDSID

LEFT JOIN Common.dbo.GdsIdToGiataProviderCode gitgpc

ON hsd.GDSID = gitgpc.GDSID

ORDER BY hsd.MasterHotelID, hsd.GDSID, hsd.AccommodationID

END

ELSE

IF @InsertRemainingParams = 1

BEGIN

SELECT

hsd.HotelStaticID

,hsd.MasterHotelID

,hsd.GDSID

,hsd.GDSName

,gitgpc.GiataProviderCode

,hsd.AccommodationID

,hsd.GatewayCode

,hsd.GdsResortCode

,hsd.GdsResortName

,hsd.StarRating

,hsd.SupplierLatitude

,hsd.SupplierLongitude

,hsd.MasterHotelName

,hsd.SupplierHotelName

,hsd.CountryName

,hsd.CountryCode

,hsd.DestinationCode

,hsd.MasterLatitude

,hsd.MasterLongitude

,hsd.CityTown

,hsd.AddressLine1

,hsd.AddressLine2

,hsd.AddressLine3

,hsd.MasterResortID

,hsd.MasterResortName

,hsd.Deleted

FROM dbo.HotelStaticData\_02\_06\_2017 AS hsd

LEFT JOIN Common.dbo.GdsIdGdsNameToBeExported gigntbe

ON hsd.GDSID = gigntbe.GDSID

LEFT JOIN Common.dbo.GdsIdToGiataProviderCode gitgpc

ON hsd.GDSID = gitgpc.GDSID

LEFT JOIN dbo.HotelStaticData\_GHI\_02\_06\_2017 AS hsdg

ON hsd.GDSID = hsdg.GDSID

AND hsd.MasterHotelID = hsdg.MasterHotelID

AND hsd.AccommodationID = hsdg.AccommodationID

WHERE hsdg.MasterHotelID IS NULL

AND hsdg.AccommodationID IS NULL

AND hsdg.GDSID IS NULL

ORDER BY hsd.MasterHotelID, hsd.GDSID, hsd.AccommodationID

END

END

1. For each of the records returned by the above stored procedure, call the GiataUrl (present in the App.config file of each project in the GiataApi solution) [**http://multicodes.giatamedia.com/webservice/rest/1.0/properties/gds/{0}/{1}**](http://multicodes.giatamedia.com/webservice/rest/1.0/properties/gds/%7b0%7d/%7b1%7d). {0} is the GiataProviderCode from the above stored procedure and {1} is the AccommodationID.

The following are the credentials to be used for calling the GiataApi. Again, these can be found in the App.config file of the corresponding projects:

UserName - **grahamf|teletext.co.uk**

Password - **Y3HRGq5t**

I will go through the code present in DownloadGiataHeaderInformationForHotelStaticData project of the GiataApi solution and further explain the workings of this.

1. **Identifying the 1 : m and m : 1 between MHId and GiataId**

Once the Giata information is downloaded for all the records into HotelStaticData\_02\_06\_2017, the following script will generate the 1 : m and m : 1 mappings between MHId and GiataId.

IF OBJECT\_ID('tempdb..#distinct\_mhids\_giata\_id\_temp') IS NOT NULL

DROP TABLE #distinct\_mhids\_giata\_id\_temp

CREATE TABLE #distinct\_mhids\_giata\_id\_temp (

MasterHotelId INT

,GiataId INT

)

INSERT INTO #distinct\_mhids\_giata\_id\_temp (MasterHotelId, GiataId)

SELECT

DISTINCT

hsdg.MasterHotelId

,hsdg.GiataId

FROM dbo.HotelStaticData\_GHI\_02\_06\_2017 AS hsdg

WHERE hsdg.GdsId <> 99

AND hsdg.GiataId > 0

AND hsdg.MasterHotelId > 0

ORDER BY hsdg.MasterHotelId

SELECT

COUNT(\*) AS CountOfDistinctMHIdAndGiataId

FROM #distinct\_mhids\_giata\_id\_temp AS dmgit

IF OBJECT\_ID('tempdb..#mhid\_multiple\_giata\_id\_temp') IS NOT NULL

DROP TABLE #mhid\_multiple\_giata\_id\_temp

CREATE TABLE #mhid\_multiple\_giata\_id\_temp (

MasterHotelId INT

)

INSERT INTO #mhid\_multiple\_giata\_id\_temp (MasterHotelId)

SELECT

DISTINCT

MasterHotelId

FROM #distinct\_mhids\_giata\_id\_temp

WHERE MasterHotelId > 0

GROUP BY MasterHotelId

HAVING COUNT(\*) > 1

ORDER BY MasterHotelId

SELECT

COUNT(\*) AS CountOfMHIdToMultipleGiataId

FROM #mhid\_multiple\_giata\_id\_temp mmgit

IF OBJECT\_ID('tempdb..#giata\_id\_multiple\_mhid\_temp') IS NOT NULL

DROP TABLE #giata\_id\_multiple\_mhid\_temp

CREATE TABLE #giata\_id\_multiple\_mhid\_temp (

GiataId INT

)

INSERT INTO #giata\_id\_multiple\_mhid\_temp (GiataId)

SELECT

DISTINCT

GiataId

FROM #distinct\_mhids\_giata\_id\_temp dmgit

GROUP BY dmgit.GiataId

HAVING COUNT(\*) > 1

SELECT

COUNT(\*) AS CountOfGiataIdToMultipleMHId

FROM #giata\_id\_multiple\_mhid\_temp

IF OBJECT\_ID('tempdb..#mhids\_due\_to\_conflicts\_in\_giata\_id\_temp') IS NOT NULL

DROP TABLE #mhids\_due\_to\_conflicts\_in\_giata\_id\_temp

CREATE TABLE #mhids\_due\_to\_conflicts\_in\_giata\_id\_temp (

MasterHotelId INT

)

INSERT INTO #mhids\_due\_to\_conflicts\_in\_giata\_id\_temp (MasterHotelId)

SELECT

DISTINCT

dmgit.MasterHotelId

FROM #distinct\_mhids\_giata\_id\_temp dmgit

WHERE dmgit.GiataId IN (SELECT

GiataId

FROM #giata\_id\_multiple\_mhid\_temp)

SELECT

COUNT(\*) AS CountOfMHIdsDueToConflictsInGiataId

FROM #mhids\_due\_to\_conflicts\_in\_giata\_id\_temp mdtcigit

The following query will generate the records that have conflicts. This is then stored into **dbo.HotelStaticData\_Conflicts\_02\_06\_2017** and then sent to the content team for further curation.

SELECT

hsdg.\*

FROM dbo.HotelStaticData\_GHI\_02\_06\_2017 AS hsdg

WHERE hsdg.MasterHotelId IN (SELECT

mmgit.MasterHotelId

FROM #mhid\_multiple\_giata\_id\_temp AS mmgit

UNION

SELECT

mdtcigit.MasterHotelId

FROM #mhids\_due\_to\_conflicts\_in\_giata\_id\_temp AS mdtcigit)

The following is the format in which the sheet is sent to the content team for curation. Please make it a habit to add ALL the columns from HotelStaticData, MasterHotels, MasterResort, etc so that you do not have to re-send the sheet should the content team ask for additional columns. The columns in some shade of “green” are from StaticData and the columns in yellow are from Giata. The non-highlighted columns (CreatedDate and ExceptionMessage) are for debugging purposes.

HotelStaticId

MasterHotelId

CorrectedMasterHotelId

GdsId

GdsName

GiataProviderCode

AccommodationId

GatewayCode

GdsResortCode

GdsResortName

MasterHotelName

SupplierHotelName

CountryName

CountryCode

DestinationCode

MasterLatitude

MasterLongitude

CityTown

AddressLine1

AddressLine2

AddressLine3

MasterResortId

MasterResortName

Deleted

GiataId

CorrectedGiataId

LastUpdatedString

LastUpdated

GiataName

GiataCityId

GiataCity

GiataCountry

GiataAddressLine1

GiataAddressLine2

GiataAddressLine3

GiataAddressLine4

GiataStreet

GiataStreetNumber

GiataCityName

GiataPostalCode

GiataAddressCountry

GiataLatitude

GiataLongitude

CreatedDate

ExceptionMessage

IndexFlag

1. **Validating the curated sheet from the content team:**

The content team usually sends a sheet named “Mapping Correction”. In this particular sheet, there are two sections:

1. **Old MHID** and **Correct MHID 1**

This means that the “Correct MHID 1” will replace all the supplier records pertaining to “Old MHID”. The “Correct MHID 1” could belong to one of the following two categories

* 1. Existing MHID – In this case, [StaticData].[dbo].[HotelStaticData] will be affected wherein MasterHotelID column will be updated to the “Correct MHID 1” value.
  2. New Property – In this case, Ranga will run a stored procedure to create a new property and populate the newly generated Master Hotel Id in its place.

1. **Static ID** and **Correct MHID 2**

This means that only a specific set of supplier records have the wrong MHID. The “Correct MHID 2” again might belong to one of the above two categories.

The verification of the above “Mapping Correction” has to be done properly before proceeding with downloading master hotel information from the contenthub end point (<http://contenthub.hotelcompany.co/HotelService.svc/Hotelinfo/> ) and downloading the images.

1. **TTSS No Content Report.**

The TeletextNoContentExport file consists of the following four columns in the order in which they appear on the csv files.

1. **Hotel Name** -
2. **Star Rating**
3. **Supplier Code** – “COS” is the only supplier that we do not care about. There will also be a few blanks that have to be ignored. The following is the mapping between the supplier code and GdsId. This is not an exhaustive list by any means. The actual mapping might increase as more records are seen in the No Content Report. Good place to look at are GDSID and GdsDistributeCode present in [HotelCompany].[dbo].[GDSSuppliers] table.

|  |  |  |
| --- | --- | --- |
| SupplierCode | GdsId | Comments |
| OTS | 5 |  |
| JBO | 7 |  |
| ALT | 8 |  |
| HOT | 10 |  |
| HBD | 14 |  |
| YOU | 16 |  |
| BWE | 29 |  |
| ABC | 42 | 42 will be appended in the Supplier Hotel column |
| ABC | 55 | 55 will be appended in the Supplier Hotel Column |

1. **Airport Code**
2. **Supplier Hotel Id** – There are a few records that have the GdsId appended to them. For e.g., “42;74201”. This then has to be split into GdsId = 42 and SupplierHotelId = 74201.
3. **Creation Date** – First time this record was seen by TTSS
4. **Modified Date** – Last time this record was seen by TTSS

The following steps have to be performed before sending the sheet to the content team for curation:

1. Convert the “Supplier Code” to GdsId from the mapping table above.
2. Trying to map records from this report to Hotel Company. The records might fall in the following categories
   1. Not selling destinations
   2. Not selling hotels
   3. Already mapped in Hotel Company but not exported to Ttss.
   4. Unmapped hotels in Hotel Company.
3. Download Giata information for (c) and (d) and then send the 1 : m and m : 1 to content team for curation.
4. After receiving the curated sheets from content, the usual verification and content export to TTSS process begins.