

Summary Tables (Tab 5) June 2020 HA Database

The Summary Tables are the main source of information for the HA Website. Several Summary Tables are also used in the HA Desktop Summary Section. There are 7 Groups of Summary Tables. The Groups are as follows:

1. Summary Provider Tables – Primary source of information for each provider (Hospital, SNF, HHA, ESRD and Hospice) and a table for each year. Twelve years of history are available.
2. Geography Tables – Summary tables for National, State, County and CBSA geographies created each new year with 12 years of history information.
3. KPI Tables – KPI tables for KPI Calculations and Values created each new year with 12 years of information.
4. Financial Tables – Financial Worksheet Tables for Balance Sheet and Income Statement information created for each year with 12 years of financial information. This table is used in the HA Desktop for the Financial Tab Reports.
5. Worksheet Tables – Worksheet Tables for Worksheets A, B and C created each year with 12 years of historical cost/charges information. This table is used in the HA Desktop for the Department Tab Reports.
6. Cost Report History – The Cost Report History is created each year for each provider from the Cost Report Header information to show the status of each CMS Cost Report.
7. Compare Tables – The Summary Compare Reports use 6 years of history. A Provider Selection list is created with all providers having 6 years of information. This table is used in the HA Desktop software for the KPI Tab Compare Report. The table is created each year for each type of provider.

In the table names listed below, are table names with asterisks on key words. The Provider* name are the 5 Providers: Hospital, SNF, HHA, ESRD and Hospice. The Year* is the last 12 years (2019 to 2008) of provider information. The Geographies* are the 4 Geographies; National, States, Counties and CBSA. The last item is BaseYear* which is the current year for the website.

REF_Summary_Provider*_Year* Tables

The REF_Summary tables are created for each provider and each year. There are tables for five providers; Hospital, SNF, HHA, ESRD and Hospice. There are tables for each year and currently goes from 2019 back to 2008. Therefore, there are 60 tables for the five providers and twelve years. The REF_Summary table has 296 fields (June 2020 HA Database) of profile information about each provider for the selected year. New fields are added every year and all files are updated during the CMS data conversion each year. You can use SQL Management Studio to see the fields. The file format is the same for each provider. Therefore, special fields for Hospital, SNF, HHA are not normalized. The loss of space from unused fields is not worth the effort to have a file format for each provider. These tables are used for HA Desktop to create the Provider Profiles and Provider KPI reports.

Website – On the main screen of the website, you can search for a Provider or no search will show the top 25 providers. The selection list is a selection of fields from the REF_Summary_Provider*_Year*

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table. When you select the Profile link, you get the Profile page for a provider. The Profile page provides access to detailed information for Cost Report History, Balance Sheet, Income Statement, Charges Statement, Worksheet A, Worksheet B, Worksheet C, KPI Calculations and KPI Values.

Source – The REF_Summary_Provider*_Year* tables are created by an SQL script from Cost Report Tables, POS Tables, Impact (Final Rule) tables and REF_Financial_Provider*_Year. In the processing of Summary Tables, this is the second set of tables created by SQL Scripts.

Table Layout – The table layout is composed of 296 fields for the June 2020 HA Database. The table layout is not described in this document due to the length of the table layout. Please use SQL Management Studio to display the table layout or refer to a separate listing that is part of the documentation (could be out of date).

Key Field – Primary Key Clustered - POS_Provider_Number Char(6)

POS Fields - Obtained from POS Tables – 21 Fields

CR Analysis Fields – Obtained from Cost Report Text and Numeric Tables – 21 Fields

Financial Statement Fields – Obtained from Worksheet F/G Numeric Tables – 20 Fields

Worksheet A Fields – Obtained from

Future Upgrades – The REF_Summary_Provider*_Year* will be upgraded to have special control field information for Worksheets 2 and Worksheet 3. The record counts for Cost Report numeric and text records will be added. New fields will be added for Worksheet S for the Provider Control Organization. New fields will be added for the Hospital A7 worksheet to show depreciation, insurance, taxes, etc. In the future, KPIs will be added for these new fields. There are also three old fields that have been replaced with new fields and will be deleted in the future.

REF_Geographies*_Provider*_BaseYear* Tables

The REF_Geographies tables are created each year for the base year of the website with 12 years of information in one table. The REF_Geographies tables are created for 4 geographies; National, States, Counties and CBSAs. A Geography table is created for each of the five providers: Hospital, SNF, HHA, ESRD and Hospice. The tables contain 12 years of information. The National table contains one record for each year. The State table contains about 55 state records for each year. The Counties tables contains over 3,100 county records and the CBSA table contain about 950 records.

Website – On the main screen of the website, you can select either the National button or the States button. The National page lists the National table with links to the States, Graphs, Top 25 Hospitals and a button to CBSAs. The States button shows a selection list of the 50+ states with links to Hospitals, Counties, Profile, Graphs and a button for CBSAs. The Counties link shows a selection list of counties in the state with links to Hospitals, Profiles and Graphs. The CBSA button shows a selection list of 950+

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CBSAs with links to Hospitals, Profiles and Graphs. When you select the Profile link, you get the Profile screen for the geography.

Source – The REF_Geographies*_Provider*_Year* tables are created by 4 SQL script from REF_Summary_Provider*_Year* tables and the Census Bureau Population Estimates. An SQL script also creates a table of graph information for each Geography.

Table Layout – The table layouts for the National table is 149 fields for the June 2020 HA Database. The table layouts for the States table is 149 fields for the June 2020 HA Database. The table layouts for the Counties table is 149 fields for the June 2020 HA Database. The table layouts for the CBSA table is 149 fields for the June 2020 HA Database. The table layout is not described in this document due to the length of the table layout. Please use SQL Management Studio to display the table layout.

Key Field – Primary Key Clustered – Key Provider_Year and Geography – State, County, CBSA

Future Upgrades – The REF_Geographies*_Provider*_Year* will be upgraded each year for the Census Bureau Population Estimate. The National table may be upgraded to contain system control information to verify the totals at the National/System level. At the present, there are no plans to add new fields or change the Geography pages.

REF_KPI_Provider*_BaseYear* Table and REF_KPI_Values_Provider*_BaseYear* Table

The REF_KPI Tables are created each processing cycle for the base year of the website for 12 years of information. The REF_KPI Tables are summaries of key information from the 60 REF_Summary_Provider Tables. The KPI_Values Table has the values used in calculations for the KPIs.

Website – On the Provider Profile page, there is a button for KPI Calculations and a button for KPI Values. If you select the KPI Calculations, a list of KPI Calculations is displayed with the numerator, denominator and KPI value. If you select KPI Values, a list of KPI Values is displayed with the values used in the calculations of the KPI Calculations.

Source – The REF_KPI Tables are created by 2 SQL scripts from the REF_Summary_Provider*_Year* tables. These SQL Scripts also create description tables for information about the KPI Calculation or KPI Value. The KPI Calculations are copied from the Summary Tables. An SQL script also creates a table of graph information for each Geography.

Table Layout – The table for the KPI_Calcs_Provider*_Baseyear* is the following.

POS_Number – Char 10 – Key Field
KPI_Item – Char 8 – Key Field
KPI_Description – Varchar 50
KPI_Numerator – Varchar 50
KPI_Numerator_Type – Varchar 12
KPI_Denominator – Varchar 50

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KPI_Denominator_type – Varchar 12
KPI_Value_Type – Varchar 12
KPI_Value_Format – char 1
KPI_Denom_Year1 – Money
KPI_Num_Year1 – Money
KPI_Value_Year1 – Money
Repeated for Year 2 to Year 12
Table Key is Primary Key Clustered – POS_Number, KPI_Item

The table for the KPI_Value_Provider*_BaseYear*
POS_Number – Char 10 – Key Field
KPI_Value – Char 8 – Key Field
KPI_Description – Varchar 50
KPI_Source – Varchar 50
KPI_Value_Type – Varchar 12
KPI_Value_Format – char 1
KPI_Value_Year1 – Money
KPI_Rank_Year1 – Int32
KPI_Percent_Year1 – Decimal(12,3)
Repeat for Year 2 to Year 12
KPI_Trend01 - decimal(7,0)
KPI_Trend03 - decimal(7,0)
KPI_Trend05 – decimal(7,0)
KPI_Trend10 - decimal(7,0)
KPI_Percent01 - decimal(20,3)
KPI_Percent03 - decimal(20,3)
KPI_Percent05 - decimal(20,3),
KPI_Percent10 - decimal(20,3)
Table Key is Primary Key Clustered – POS_Number, KPI_Value

Future Upgrades – At the present, there are no plans to add new fields or change the KPI_Calcs or KPI_Values Tables. In the KPI_Values, the KPI_TrendXX and KPI_Percent01 to 10 are fields from the Summary tables. The fields are not used but could be used in a future upgrade.

REF_Financial_Provider*_BaseYear* - The REF_Financial is created each year for the base year of the website for 12 years of information. The table is created from Worksheet G/F. The Financial information in the REF_Summary tables is updated from this table. The website Balance Sheet, Income Statement and Charges Statement is from this table. These tables are used in the HA Desktop for the Provider Financial reports.

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Website – On the main screen of the website, you can search for a Provider or no search will show the top 25 providers. The selection list is a selection of fields from the REF_Summary_Provider*_Year* table. When you select the Profile link, you get the Profile page for a provider. The Profile page provides access to detailed information for Cost Report History, Balance Sheet, Income Statement, Charges Statement, Worksheet A, Worksheet B, Worksheet C, KPI Calculations and KPI Values.

Source – The REF_Summary_Provider*_Year* tables are created by an SQL script from Cost Report Tables, POS Tables, Impact (Final Rule) tables and REF_Financial_Provider*_Year. In the processing of Summary Tables, this is the second set of tables created by SQL Scripts.

Table Layout – The table layout is composed of 296 fields for the June 2020 HA Database. The table layout is not described in this document due to the length of the table layout. Please use SQL Management Studio to display the table layout or refer to a separate listing that is part of the documentation (could be out of date).

Key Field – Primary Key Clustered - POS_Provider_Number Char(6)

POS Fields - Obtained from POS Tables – 21 Fields

CR Analysis Fields – Obtained from Cost Report Text and Numeric Tables – 21 Fields

Financial Statement Fields – Obtained from Worksheet F/G Numeric Tables – 20 Fields

Worksheet A Fields – Obtained from

Future Upgrades – The REF_Summary_Provider*_Year* will be upgraded to have special control field information for Worksheets 2 and Worksheet 3. The record counts for Cost Report numeric and text records will be added. New fields will be added for Worksheet S for the Provider Control Organization. New fields will be added for the Hospital A7 worksheet to show depreciation, insurance, taxes, etc. In the future, KPIs will be added for these new fields. There are also three old fields that have been replaced with new fields and will be deleted in the future.

The table for the KPI_Value_Provider*_BaseYear*

[Provider] [char](6) NOT NULL,

[Worksheet] [char](3) NOT NULL,

[Workpart] [char](1) NOT NULL,

[WS_Line] [char](5) NOT NULL,

[WS_Column] [char](5) NOT NULL,

[Line_Desc] [varchar](100) NOT NULL,

[Col_Desc] [varchar](25) NOT NULL,

[Year1] [money] NOT NULL,

[Rank_Year1] [int] NULL,

[Percent_Year1] [decimal](12, 3) NULL,

Table Key is Primary Key Clustered – Provider, Worksheet, Workpart, WS_Line, WS_Column

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REF_Worksheet_Letter*_Provider*_BaseYear*

The REF_Worksheet are three tables created each year for the base year of the website for 12 years of information. The Worksheet Letters are Worksheet A – Trial Balance of Expenses, Worksheet B – Cost Allocation and Worksheet C – Ratio of Cost to Charges. These tables provide detailed cost and changes information. These tables are used in the HA Desktop for the Provider Department reports.

Website – On the main screen of the website, you can search for a Provider or no search will show the top 25 providers. The selection list is a selection of fields from the REF_Summary_Provider*_Year* table. When you select the Profile link, you get the Profile page for a provider. The Profile page provides access to detailed information for Cost Report History, Balance Sheet, Income Statement, Charges Statement, Worksheet A, Worksheet B, Worksheet C, KPI Calculations and KPI Values.

Source – The REF_Summary_Provider*_Year* tables are created by an SQL script from Cost Report Tables, POS Tables, Impact (Final Rule) tables and REF_Financial_Provider*_Year. In the processing of Summary Tables, this is the second set of tables created by SQL Scripts.

Table Layout – The table layout is composed of 296 fields for the June 2020 HA Database. The table layout is not described in this document due to the length of the table layout. Please use SQL Management Studio to display the table layout or refer to a separate listing that is part of the documentation (could be out of date).

Key Field – Primary Key Clustered - POS_Provider_Number Char(6)

POS Fields - Obtained from POS Tables – 21 Fields

CR Analysis Fields – Obtained from Cost Report Text and Numeric Tables – 21 Fields

Financial Statement Fields – Obtained from Worksheet F/G Numeric Tables – 20 Fields

Worksheet A Fields – Obtained from

Future Upgrades – The REF_Summary_Provider*_Year* will be upgraded to have special control field information for Worksheets 2 and Worksheet 3. The record counts for Cost Report numeric and text records will be added. New fields will be added for Worksheet S for the Provider Control Organization. New fields will be added for the Hospital A7 worksheet to show depreciation, insurance, taxes, etc. In the future, KPIs will be added for these new fields. There are also three old fields that have been replaced with new fields and will be deleted in the future.

Table Layout – The table for the **REF_Worksheet_A_Provider*_BaseYear*** - is the following.

[Provider] [char](6) NOT NULL,
[Worksheet] [char](3) NOT NULL,

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[Workpart] [char](1) NOT NULL,
[WS_Line] [char](5) NOT NULL,
[Line_Desc] [varchar](100) NOT NULL,
[Cost_Year1] [money] NULL,
[Adjust_Year1] [money] NULL,
[Total_Year1] [money] NULL,
[Rank_Year1] [int] NULL,
[Percent_Year1] [decimal](12, 3) NULL,
Repeated for Year 2 to Year 12

Table Key – Primary Key Clustered - Provider, Worksheet, Workpart, WS_Line.

Table Layout – The table for the **REF_Worksheet_B_Provider*_BaseYear*** - is the following.

[Provider] [char](6) NOT NULL,
[Worksheet] [char](3) NOT NULL,
[Workpart] [char](1) NOT NULL,
[WS_Line] [char](5) NOT NULL,
[Line_Desc] [varchar](100) NOT NULL,
[Total_Year1] [money] NULL,
[Rank_Total_Year1] [int] NULL,
[Allocate_Year1] [money] NULL,
[Rank_Allocate_Year1] [int] NULL,
[Percent_Allocate_Year1] [decimal](12, 3) NULL,
Repeated for Year 2 to Year 12

Table Key – Primary Key Clustered - Provider, Worksheet, Workpart, WS_Line.

Table Layout – The table for the **REF_Worksheet_C_Provider*_BaseYear*** - is the following.

[Provider] [char](6) NOT NULL,
[Worksheet] [char](3) NOT NULL,
[Workpart] [char](1) NOT NULL,
[WS_Line] [char](5) NOT NULL,
[Line_Desc] [varchar](100) NOT NULL,
[Cost_Year1] [money] NULL,
[Charge_Year1] [money] NULL,
[Ratio_Year1] [decimal](16, 6) NULL,
[Rank_Year1] [int] NULL,
[Rank_Charge_Year1] [int] NULL,
[Percent_Cost_Year1] [decimal](12, 3) NULL,
[Percent_Charge_Year1] [decimal](12, 3) NULL,
Repeated for Year 2 to Year 12

Table Key – Primary Key Clustered - Provider, Worksheet, Workpart, WS_Line.

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REF_CostReports_Provider*_BaseYear* -

The REF_CostReport table has all the Worksheet Numbers of the Cost Reports filed by the Providers. The table has key information about the filing status of each cost report.

Website – On the Provider Profile page, there is a button for Cost Report History. If you select the button and see all the cost reports filed by a provider in descending year order. The Back button returns to the Provider Profile page.

Source – The REF_CostReport_Provider*_BaseYear* is created by an SQL script from the CR_Headers_Provider*_Year* tables. In general, the worksheet numbers are assigned by CMS and are an ascending value.

Table Layout – The table for the REF_CostReports_Hospital_2019 is the following.

[Prov_no] [varchar](6) NOT NULL,
[rept_id] [decimal](7, 0) NOT NULL,
[CALYear] [varchar](4) NOT NULL,
[CMSFile] [varchar](4) NOT NULL,
[Pname] [varchar](40) NULL,
[PCity] [varchar](28) NULL,
[PState] [varchar](2) NULL,
[FI_Code] [char](5) NOT NULL,
[Prov_Cnt] [char](2) NULL,
[Util_CD] [char](1) NULL,
[Initial_SW] [char](1) NULL,
[Last_SW] [char](1) NULL,
[FY_Beg_DT] [varchar](10) NOT NULL,
[FY_End_DT] [varchar](10) NOT NULL,
[FY_Days] [decimal](5, 0) NOT NULL,
[FY_SDesc] [varchar](12) NOT NULL,
[FI_Rec_DT] [varchar](10) NULL,
[Process_DT] [varchar](10) NULL,
[NPR_DT] [varchar](10) NULL,
[Prevenue] [decimal](11, 0) NULL,
[PProfit] [decimal](11, 0) NULL,
[PPayment] [decimal](11, 0) NULL,
[FY_Begin] [datetime] NOT NULL,
[FY_End] [datetime] NOT NULL,
[FY_Rank] [int] NOT NULL,

CONSTRAINT [PK_REF_CostReports_Hospital_2019] **PRIMARY KEY CLUSTERED**

(

[Prov_no] **ASC**,
[CALYear] **ASC**,

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[rept_id] ASC

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REF_Compare_Provider*_BaseYear* -

The REF_Compare tables are used for the KPI_Compare reports on the HA Desktop. The table is created each year for the base year of the website and 6 years of selection information. The table is used in the HA Desktop and not used on the website.

Website – On the main screen of the website, you can search for a Provider or no search will show the top 25 providers. The selection list is a selection of fields from the REF_Summary_Provider*_Year* table. When you select the Profile link, you get the Profile page for a provider. The Profile page provides access to detailed information for Cost Report History, Balance Sheet, Income Statement, Charges Statement, Worksheet A, Worksheet B, Worksheet C, KPI Calculations and KPI Values.

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Financial Statement Fields – Obtained from Worksheet F/G Numeric Tables – 20 Fields

Worksheet A Fields – Obtained from

Future Upgrades – The REF_Summary_Provider*_Year* will be upgraded to have special control field information for Worksheets 2 and Worksheet 3. The record counts for Cost Report numeric and text records will be added. New fields will be added for Worksheet S for the Provider Control Organization.

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New fields will be added for the Hospital A7 worksheet to show depreciation, insurance, taxes, etc. In the future, KPIs will be added for these new fields. There are also three old fields that have been replaced with new fields and will be deleted in the future.

Table Layout – The table for the **REF_Compare_Hospital_2019** - is the following.

[Provider] [char](6) NOT NULL,
[Provider_Name] [varchar](50) NOT NULL,
[Provider_City] [varchar](28) NOT NULL,
[Provider_State] [char](2) NOT NULL,
[Provider_Zip] [char](5) NOT NULL,
[Provider_County_Name] [varchar](30) NOT NULL,
[Provider_Control_Desc] [varchar](35) NOT NULL,
[Provider_Type_Desc] [varchar](35) NOT NULL,
[Provider_Carrier_Desc] [varchar](35) NOT NULL,
[Provider_Annual_Charges] [money] NOT NULL,
[Provider_CR_Ranking_Charges] [int] NOT NULL,
[Provider_Annual_Revenue] [money] NOT NULL,
[Provider_CR_Ranking_Revenue] [int] NOT NULL,
[Provider_Annual_Profit_Loss] [money] NOT NULL,
[Provider_CR_Ranking_Profit] [int] NOT NULL,
[SUM_Year1_FY_Revenue] [money] NULL,
[SUM_Year1_FY_End] [datetime] NULL,
[SUM_Year1_FY_Days] [int] NULL,
[SUM_Year2_FY_Revenue] [money] NULL,
[SUM_Year2_FY_End] [datetime] NULL,
[SUM_Year2_FY_Days] [int] NULL,
[SUM_Year3_FY_Revenue] [money] NULL,
[SUM_Year3_FY_End] [datetime] NULL,
[SUM_Year3_FY_Days] [int] NULL,
[SUM_Year4_FY_Revenue] [money] NULL,
[SUM_Year4_FY_End] [datetime] NULL,
[SUM_Year4_FY_Days] [int] NULL,
[SUM_Year5_FY_Revenue] [money] NULL,
[SUM_Year5_FY_End] [datetime] NULL,
[SUM_Year5_FY_Days] [int] NULL,
[SUM_Year6_FY_Revenue] [money] NULL,
[SUM_Year6_FY_End] [datetime] NULL,
[SUM_Year6_FY_Days] [int] NULL,
[Provider_County] [char](5) NOT NULL,
[Provider_Control] [char](4) NOT NULL,
[Provider_Type] [char](4) NOT NULL,

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[Provider_Carrier] [char](5) NOT NULL,
[Provider_MSA] [char](5) NOT NULL,
[TableUpdate] [datetime] NULL,
Table Key – Primary Key Clustered - Provider.