GPSSA – Calendar Mart using SQL

**STEP - 1**

* Create a static view containing Citizen demographic and Employer demographics. This would be the DEMOGS\_VIEW. (Ensure that there are no duplicates in this view).

**SQL - Query**

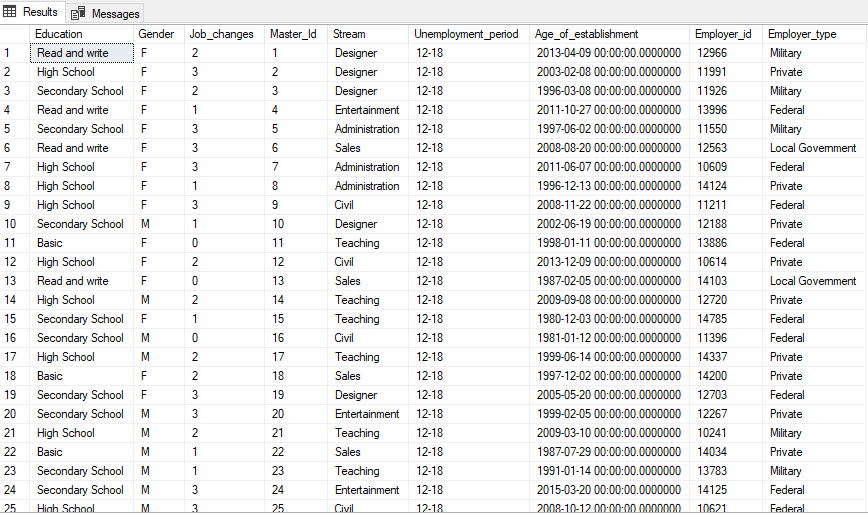
1. SELECT

a.Education, a.Gender, a.Job\_changes, a.Master\_Id, a.Stream, a.Unemployment\_period, b.Age\_of\_establishment, b.Employer\_id, b.Employer\_type

INTO DEMOGS\_VIEW

FROM dbo.MDM\_demographics AS a LEFT JOIN dbo.MDM\_employer\_demographics AS b ON a.Master\_Id = b.Master\_Id;

**OUTPUT**

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**STEP - 2**

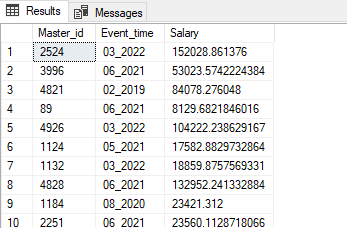
* From the FTS data extract the individual elements from the string.

**SQL - Query**

1. UAE576PF:01\_2019:11327.934464
2. 576 corresponds to Master\_ID, 01\_2019 corresponds to MMYY and 11327 corresponds to the Salary
3. Multiple salaries on the same month, one having negative or 0 entries might be there. Remove negative values and then aggregate all the salaries in the month. This will be your FTS\_SALARY\_VIEW having Master\_id, MMYY,Salary without any duplicate entries

* CREATE TABLE FTS\_SALARY\_VIEW ( Master\_id int, Event\_time text, Salary float );
  + INSERT INTO FTS\_SALARY\_VIEW (Master\_id, Event\_time, Salary)
  + SELECT (SUBSTRING(F.column1, 4, CHARINDEX('P', F.column1) - 4)),
  + (SUBSTRING(F.column1, CHARINDEX(':', F.column1) + 1, 7)),
  + (try\_convert(float, SUBSTRING(F.column1, CHARINDEX(':', F.column1) + 9, 100)))
  + FROM FTS AS F;
  + UPDATE FTS\_SALARY\_VIEW SET Salary = 0 FROM FTS\_SALARY\_VIEW WHERE Salary < 0;
  + SELECT CAST(Master\_id AS NVARCHAR(100)) AS Master\_id, CAST(Event\_time As NVARCHAR(100)) AS Event\_time,
    - SUM(Salary) AS Salary INTO FTS\_SALARY\_VIEW1
  + FROM FTS\_SALARY\_VIEW
  + GROUP BY CAST(Master\_id AS NVARCHAR(100)),CAST(Event\_time As NVARCHAR(100));

**OUTPUT**

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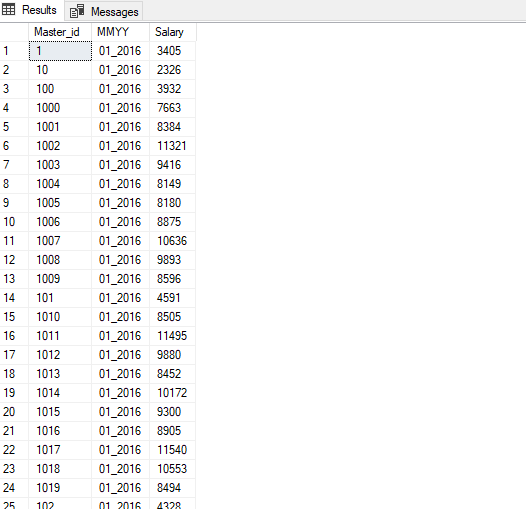
**STEP - 3**

* Repeat point 2.c for the Siebel salary. This will be your SIEBEL\_SALARY\_VIEW

**SQL - Query**

* UPDATE Siebel\_salary SET Salary = 0 WHERE Attrib\_11 = 'N';
  + SELECT CAST(Master\_id AS NVARCHAR(100)) AS Master\_id, CAST(MMYY As NVARCHAR(100)) AS MMYY,
  + SUM(try\_convert(float, Salary)) AS Salary INTO SIEBEL\_SALARY\_VIEW FROM Siebel\_salary
  + GROUP BY CAST(Master\_id AS NVARCHAR(100)),CAST(MMYY As NVARCHAR(100));

**OUTPUT**

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**STEP - 4**

* Remove duplicates for Siebel Contribution if any. This will be your SIBEL\_CONTRIBUTION\_VIEW

**SQL - Query**

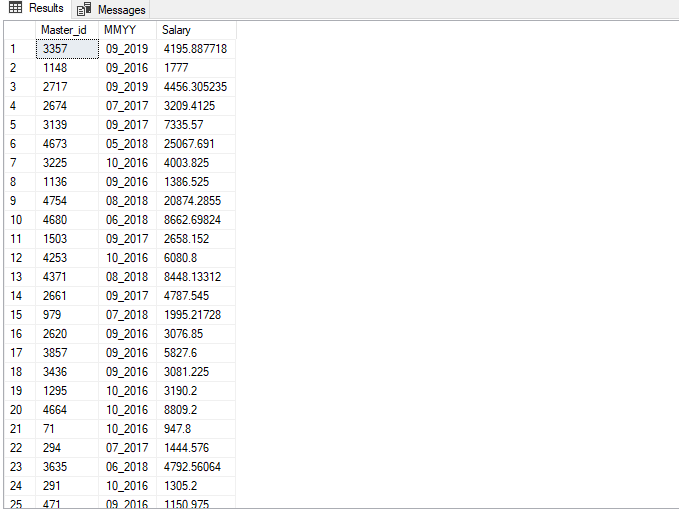
SELECT CAST(Master\_id AS NVARCHAR(100)) AS Master\_id, CAST(MMYY As NVARCHAR(100)) AS MMYY,

SUM(try\_convert(float,Contribution)) AS Salary INTO SIBEL\_CONTRIBUTION\_VIEW

FROM dbo.Siebel\_contribution

GROUP BY CAST(Master\_id AS NVARCHAR(100)),CAST(MMYY As NVARCHAR(100));

**OUTPUT**

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**STEP - 5**

* Create a contribution table from the FTS with the following logic

**SQL - Query**

1. Get the employer information from DEMOG\_VIEW.
2. For govt and federal employees(anything except private employees) take it as 20% of the salary and for private employees take it as 17.5% of the salary. This will be your FTS\_CONTRIBUTION\_VIEW

SELECT

Master\_id,Event\_time,Salary

INTO fts\_contribution\_view

FROM dbo.FTS\_SALARY\_VIEW1;

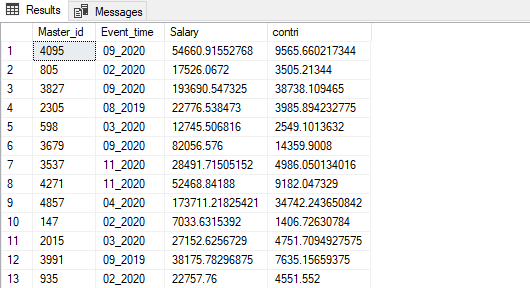
alter table fts\_contribution\_view add contri float;

update fts\_contribution\_view set contri=salary\*(.175) where master\_id in (select master\_id from MDM\_employer\_demographics where Employer\_type ='Private');

update fts\_contribution\_view set contri=salary\*(.2) where master\_id not in (select master\_id from MDM\_employer\_demographics where Employer\_type ='Private');

select \* from fts\_contribution\_view;

**OUTPUT**

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