**1.Load Dim Suburb**

Diagram

Description automatically generated

**2.Load Dim State**

**Diagram

Description automatically generated**

**3. Load Dim School**

**Diagram

Description automatically generated**

**4. Load Dim Station**

**Diagram

Description automatically generated**

**5.Load Fact Rental Median.**

**Diagram

Description automatically generated**

1.Cleanup Staging Tables. Graphical user interface, application

Description automatically generated

2. Extract Rental median into Stg\_Rentalmedian.

Diagram

Description automatically generated

3. Transform Staging Rental into Stg\_FactRentalMedian.

Diagram

Description automatically generated

4. Load into database By using Upsert:

Graphical user interface, application

Description automatically generated

Use Store Procedure : [dbo].[usp\_UpsertRentalMedian]

--CREATE PROCEDURE dbo.usp\_UpsertRentalMedian

ALTER PROCEDURE [dbo].[usp\_UpsertRentalMedian]

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

Declare @CurrentDate datetime = getdate()

update F

set F.[SuburbKey] = S.[SuburbKey],

F.[Rental Type] = S.[Rental Type],

F.[State\_code] = S.[State\_code],

F.[Rental Median value] = S.[Rental Median value],

F.[EndDate] = @CurrentDate

From AdvanceTaskDW.[dbo].[FactRentalMedian] F Inner Join Stg\_FactRentialMedian S

ON F.RentalID = S.RentalID

Insert Into AdvanceTaskDW.[dbo].[FactRentalMedian]

([RentalID],

[SuburbKey],

[Rental Type],

[State\_code],

[Rental Median value],

[StartDate],

[EndDate])

Select

[RentalID],

[SuburbKey],

[Rental Type],

[State\_code],

[Rental Median value],

@CurrentDate as [StartDate],

@CurrentDate as [EndDate]

From [dbo].[Stg\_FactRentialMedian]

where Not Exists (Select 1 from AdvanceTaskDW.[dbo].[FactRentalMedian]

where FactRentalMedian.RentalID = Stg\_FactRentialMedian.RentalID)

END

**Graphical user interface, diagram, application

Description automatically generated**

**6. Load Fact Property Median.**

**Diagram

Description automatically generated**

1.clean up staging tables.

Graphical user interface, application

Description automatically generated

2.Extrate propertymedian into Stg\_propertymedian

Diagram

Description automatically generated

3.Transform in to Stg\_FactMedian.

Graphical user interface, diagram

Description automatically generated

4.Load In to data in fact table using Upsert.

Graphical user interface, application

Description automatically generated

Use Store Procedure **: [dbo].[usp\_UpsertPropMedian]**

ALTER PROCEDURE [dbo].[usp\_UpsertPropMedian]

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

Declare @CurrentDate datetime = getdate()

Update F

Set F.[SuburbKey] = S.[SuburbKey],

F.[SchoolKey] = S.[SchoolKey],

F.[State\_code] = S.[State\_code],

F.[Dawelling Type] = S.[Dawelling Type],

F.[UpdatedYr] = S.[UpdatedYr],

F.[QTR] = S.[QTR],

F.[Median Value] = S.[Median Value],

F.[EndDate] = @CurrentDate

From [AdvanceTaskDW].[dbo].[FactPropertymedian] F

Inner Join [dbo].[StgFactMedian] S

On F.[PropertyID] = S.[PropertyID]

Insert Into [AdvanceTaskDW].[dbo].[FactPropertymedian] ([PropertyID],

[SuburbKey],

[SchoolKey],

[State\_code],

[Dawelling Type],

[UpdatedYr],

[QTR],

[Median Value],

[StartDate],

[EndDate])

Select

[PropertyID],

[SuburbKey],

[SchoolKey],

[State\_code],

[Dawelling Type],

[UpdatedYr], [QTR],

[Median Value],

@CurrentDate as [StartDate],

@CurrentDate as [EndDate]

From [dbo].[StgFactMedian]

Where Not Exists (Select 1 from [AdvanceTaskDW].[dbo].[FactPropertymedian] where [FactPropertymedian].PropertyID = [StgFactMedian].PropertyID )

END

**7. Load Fact Crime**

Graphical user interface, application

Description automatically generated

1.clean up staging tables.

Graphical user interface, application

Description automatically generated

2.Extrate Crime into Stg\_Crime

Diagram

Description automatically generated

3.Transform in to Stg\_FactCrime.

Diagram

Description automatically generated

4.Load In to data in fact table using Upsert.

Graphical user interface, application

Description automatically generated

Use Store Procedure **:** **[dbo].[usp\_Upsertcrime]**

--CREATE PROCEDURE [dbo].[usp\_Upsertcrime]

ALTER PROCEDURE [dbo].[usp\_Upsertcrime]

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

Declare @CurrentDate datetime = getdate()

Update F

set F.[SuburbKey] = S.[SuburbKey],

F.[SchoolKey] = S.[Schoolkey],

F.[State\_Code] = S.[State\_Code],

F.[Offences] = S.[Offences],

F.[Offences Subtype] = S.[Offences Subtype],

F.[Year] = S.[Year],

F.[QTR] = S.[QTR],

F.[Recored Incidents] = S.[Recored Incidents],

F.[EndDate] = @CurrentDate

From [AdvanceTaskDW].[dbo].[FactCrimeRecord] F Inner Join [dbo].[Stg\_FactCrime] S

ON F.[CrimeID] = S.[CrimeID]

Insert Into [AdvanceTaskDW].[dbo].[FactCrimeRecord] ([CrimeID],

[SuburbKey],

[SchoolKey],

[State\_Code],

[Offences],

[Offences Subtype],

[Year],

[QTR],

[Recored Incidents],

[StartDate],

[EndDate])

Select

[CrimeID],

[SuburbKey],

[SchoolKey],

[State\_Code],

[Offences],

[Offences Subtype],

[Year],

[QTR],

[Recored Incidents],

@CurrentDate as [StartDate],

@CurrentDate as [EndDate]

From [dbo].[Stg\_FactCrime]

Where Not Exists (Select 1 from [AdvanceTaskDW].[dbo].[FactCrimeRecord] where [FactCrimeRecord].[CrimeID] = [dbo].[Stg\_FactCrime].[CrimeID])

END

**8.Load Fact Suburb Population.**

**Graphical user interface, application

Description automatically generated**

1.clean up staging tables.

Graphical user interface, application

Description automatically generated

2.Extrate suburb Population into Stg\_Suburbpopulation.

Diagram

Description automatically generated

3.Transform in to Stg\_FactSuburbPopulation

Diagram

Description automatically generated

4.Load In to data in fact table using Upsert.

Graphical user interface, application

Description automatically generated

Use Store Procedure **:** **dbo].[usp\_UpsertSuburbPopulation]**

--CREATE PROCEDURE [dbo].[usp\_UpsertSuburbPopulation]

ALTER PROCEDURE [dbo].[usp\_UpsertSuburbPopulation]

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

Declare @CurrentDate datetime = getdate()

Update F

set F.[SuburbKey] = S.[SuburbKey],

F.[State\_code] = S.[State\_code],

F.[Year] = S.[Year],

F.[Population] = S.[Population],

F.[EndDate] = @CurrentDate

From [AdvanceTaskDW].[dbo].[FactSuburbPopulation] F Inner Join [dbo].[Stg\_FactSuburbPopulation] S

ON F.[PopulationID] = S.[PopulationID]

Insert Into [AdvanceTaskDW].[dbo].[FactSuburbPopulation]

([PopulationID],

[SuburbKey],

[State\_code],

[Year],

[Population],

[StartDate],

[EndDate])

Select

[PopulationID],

[SuburbKey],

[State\_code],

[Year],

[Population],

@CurrentDate as [StartDate],

@CurrentDate as [EndDate]

From [dbo].[Stg\_FactSuburbPopulation]

where Not Exists (select 1 from [AdvanceTaskDW].[dbo].[FactSuburbPopulation] where[FactSuburbPopulation].[PopulationID] = [Stg\_FactSuburbPopulation].[PopulationID])

END

**Graphical user interface, application

Description automatically generated**