A logo with a person's face on it

Description automatically generated with low confidence

Sri Lanka Institute of Information Technology

IT3021- Data Warehousing and Business Intelligence

**Assignment 1**

2022

Submitted By:

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**Data Set Selection and Preparation**

The selected data set include data about Indian Premier League tournaments took place during several years. The link to the source data set is mentioned

[https://www.kaggle.com/datasets/ramjidoolla/ipl-data-set](https://www.kaggle.com/datasets/ramjidoolla/ipl-data-setz)

This data set has tables about Match detail, Players details, Team detail, Team performance details, Player’s performance details, Team wise home and away performance details, and every deliveries detail in the match, it means what happened from ball by ball.

All this tables available in .csv file format and after downloading them I created a SQL database using few tables, and the rest were left as .csv file format.

The data set were not properly arranged. It needed to process before use it. Also, It needed to modify by adding some data.

**The tables and Descriptions**

* Player table

This table has player name, player DOB, is he right-hand or left-hand, his bowling type,

* + Bowling type table

Right-arm-bowler, left arm bowler, spring bowler, ect

* + Batting type table

Right hand batsman, left hand batsman

* Player address

This table has address details

* Match table

This table has detail about all matches, what teams are played, who is the winner, match results, man of the match details, who is the toss winner, toss winner decision ect.

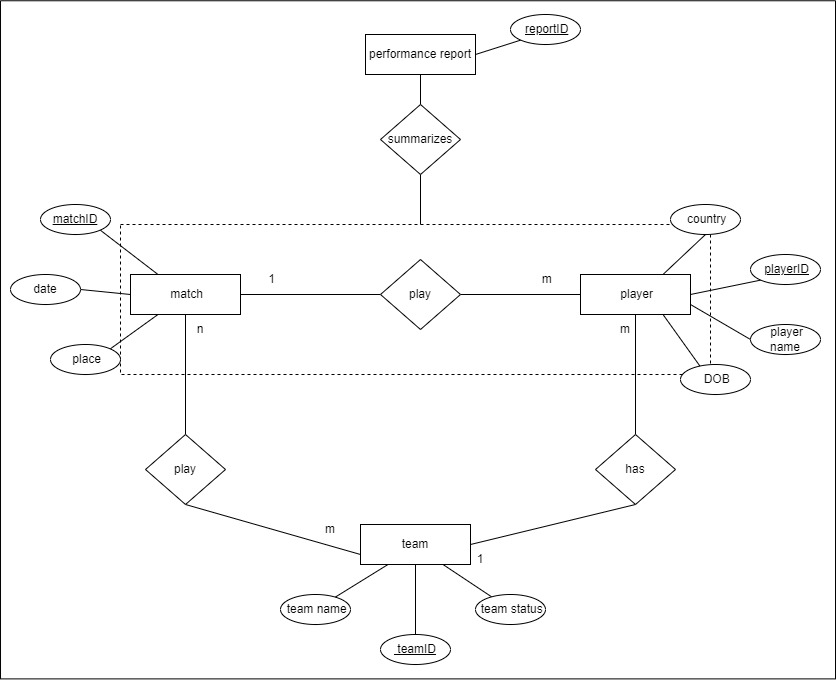
* Deliveries Table

This table contains every detail about ball by ball, how many runs, is it a wicket, player dismissals, is it a no-ball, wide ball, ect.

* Team wise Home and Away performance

This table contains the particular team performance in they home city and other places, compare the performance and average of there performance.

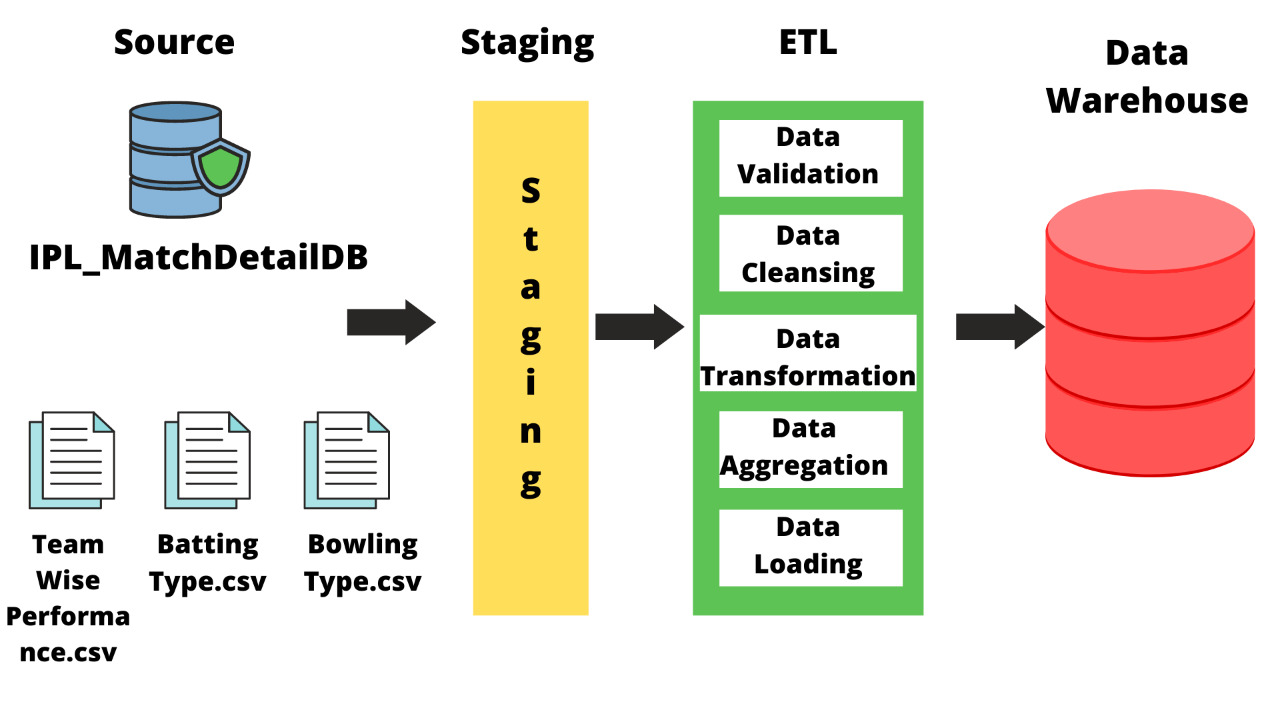
**ER-Diagram**

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**Architecture**

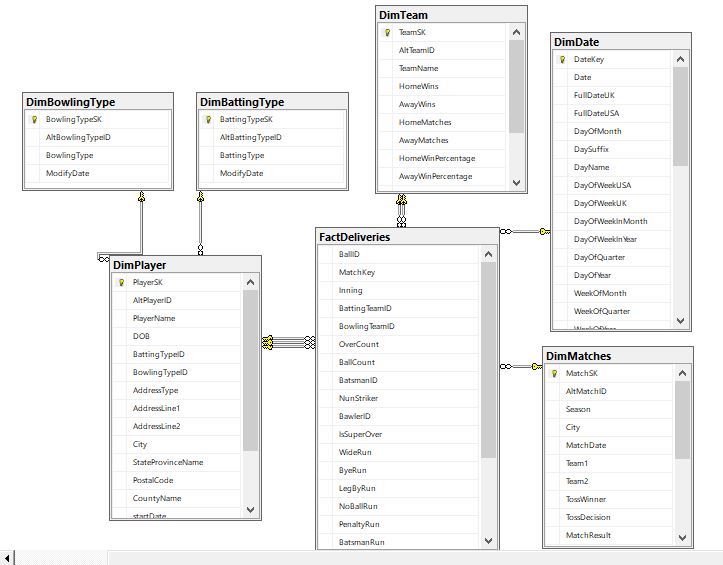
* The two main sources I use to create this project are

1. SQL database
2. CSV files



**Datawarehouse Design and Development**

As data warehouse design I used Snowflake schema design. There is six dimensional table and one fact table.



**Assumptions**

DimTeam dimension is slowly changing dimension.

* DimTeam dimensional table created using team detail table and team performance tables. In here team performance table data are changed time to time.

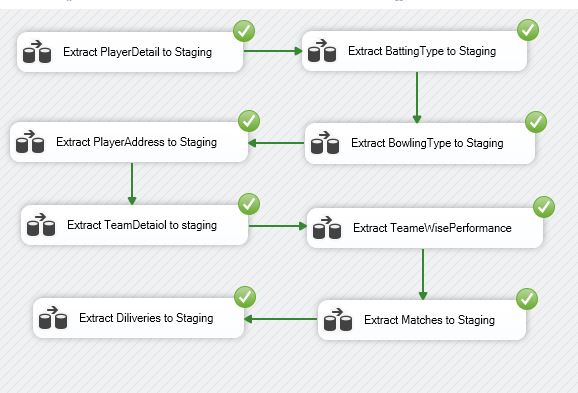
Fact Table

* The fact table contain all the details of matches ball by ball.

|  |
| --- |
| create table DimBattingType  (  BattingTypeSK int identity(1,1) primary key,  AltBattingTypeID int,  BattingType nvarchar(50),  ModifyDate datetime  )  create table DimBowlingType  (  BowlingTypeSK int identity(1,1) primary key,  AltBowlingTypeID int,  BowlingType nvarchar(50),  ModifyDate datetime  )  create table DimTeam  (  TeamSK int identity(1,1) primary key,  AltTeamID int,  TeamName nvarchar(40),  HomeWins int,  AwayWins int,  HomeMatches int,  AwayMatches int,  HomeWinPercentage int,  AwayWinPercentage int,  InsertDate datetime,  ModifyDate datetime,  StartDate datetime,  EndDate datetime  )  create table DimPlayer  (  PlayerSK int identity(1,1) primary key,  AltPlayerID int,  PlayerName nvarchar(50),  DOB nvarchar(20),  BattingTypeID int foreign key references DimBattingType(BattingTypeSK),  BowlingTypeID int foreign key references DimBowlingType(BowlingTypeSK),  create table DimMatches  (  MatchSK int identity(1,1) primary key,  AltMatchID int,  Season varchar(20),  City varchar(20),  MatchDate varchar(20),  Team1 varchar(50),  Team2 varchar(50),  TossWinner varchar(50),  TossDecision varchar(20),  MatchResult varchar(20),  IsDLApplied varchar(20),  Winner varchar(50),  WinByRuns varchar(20),  WinBYWickets varchar(20),  PlayerOfTheMatch varchar(20),  Umpire1 varchar(20),  Umpire2 varchar(20),  InsertDate datetime,  ModifyDate datetime,  )  create table FactDeliveries  (  BallID int,  MatchKey int foreign key references DimMatches(MatchSK),  Inning int,  BattingTeamID int foreign key references DimTeam(TeamSK),  BowlingTeamID int foreign key references DimTeam(TeamSK),  OverCount int,  BallCount int,  BatsmanID int foreign key references DimPlayer(PlayerSK),  NunStriker int foreign key references DimPlayer(PlayerSK),  BawlerID int foreign key references DimPlayer(PlayerSK),  IsSuperOver int,  WideRun int,  ByeRun int,  LegByRun int,  NoBallRun int,  PenaltyRun int,  BatsmanRun int,  ExtraRun int,  TotalRun int,  MatchDate int foreign key references DimDate(DateKey),  InserDate datetime,  ModifyDate datetime  ) |

**ETL Development**

A SQL database and tree CSV files are used as data sources. Firstly, the relevant tables are loaded to the Staging area and when loading the table, every table are handled by even handler OnPerExecute to truncate tables.



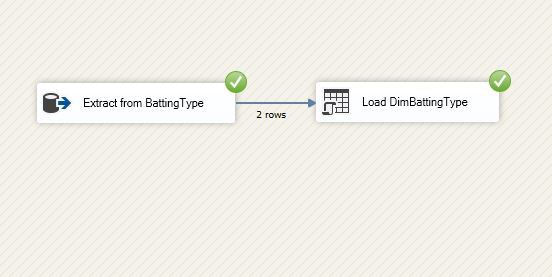
After the all tables successfully inserted to the staging area, it need to be data cleansing

**Procedures**

|  |
| --- |
| CREATE PROCEDURE dbo.UpdateDimBattingType  @BattingTypeID int,  @BattingType nvarchar(50)  AS BEGIN  if not exists (select BattingTypeSK  from dbo.DimBattingType  where AltBattingTypeID = @BattingTypeID) BEGIN  insert into dbo.DimBattingType  (AltBattingTypeID, BattingType)  values  (@BattingTypeID, @BattingType) END;  if exists (select BattingTypeSK  from dbo.DimBattingType  where AltBattingTypeID =@BattingTypeID) BEGIN  update dbo.DimBattingType  set BattingType = @BattingType  where AltBattingTypeID = @BattingTypeID END;  END;  CREATE PROCEDURE dbo.UpdateDimBowlingType  @BowlingTypeID int,  @BowlingType nvarchar(50)  AS BEGIN  if not exists (select BowlingTypeSK  from dbo.DimBowlingType  where AltBowlingTypeID = @BowlingTypeID) BEGIN  insert into dbo.DimBowlingType  (AltBowlingTypeID, BowlingType)  values  (@BowlingTypeID, @BowlingType) END;  if exists (select BowlingTypeSK  from dbo.DimBowlingType  where AltBowlingTypeID =@BowlingTypeID) BEGIN  update dbo.DimBowlingType  set BowlingType = @BowlingType  where AltBowlingTypeID = @BowlingTypeID END;  END; |

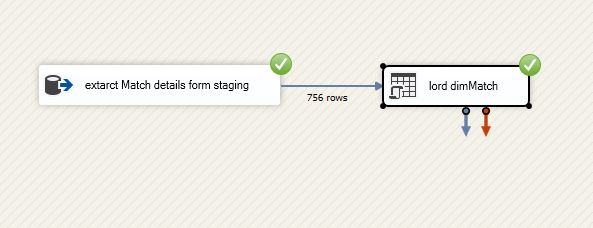
|  |  |
| --- | --- |
| CREATE PROCEDURE dbo.UpdateDimMatches  @MatchID int,  @season varchar(20),  @city varchar(20),  @matchdate varchar(20),  @Team1 varchar(50),  @team2 varchar(50),  @TossWinner varchar(50),  @TossDecision varchar(50),  @MatchResult varchar(50),  @IsDLApplied varchar(50),  @Winner varchar(50),  @WinByRuns varchar(50),  @WinBYWickets varchar(50),  @PlayerOfTheMatch varchar(50),  @Umpire1 varchar(50),  @Umpire2 varchar(50)  AS  BEGIN  if not exists (select MatchSK  from dbo.DimMatches  where AltMatchID = @MatchID) BEGIN  insert into dbo.DimMatches  (AltMatchID, Season, City, MatchDate, Team1, Team2, TossWinner,TossDecision, MatchResult, IsDLApplied, Winner, WinByRuns, WinBYWickets, PlayerOfTheMatch, Umpire1, Umpire2)  values  (@MatchID, @season, @city, @matchdate, @Team1,@team2, @TossWinner, @TossDecision, @MatchResult, @IsDLApplied, @Winner, @WinByRuns ,@WinBYWickets ,@PlayerOfTheMatch ,@Umpire1 ,@Umpire2 )  END;  if exists (select MatchSK  from dbo.DimMatches  where AltMatchID = @MatchID) BEGIN  update dbo.DimMatches  set  AltMatchID = @MatchID,  Season=@season ,  City=@city ,  MatchDate=@matchdate ,  Team1=@Team1 ,  Team2=@team2 ,  TossWinner=@TossWinner ,  TossDecision=@TossDecision ,  MatchResult=@MatchResult ,  IsDLApplied=@IsDLApplied ,  Winner=@Winner ,  WinByRuns=@WinByRuns ,  WinBYWickets=@WinBYWickets ,  PlayerOfTheMatch=@PlayerOfTheMatch ,  Umpire1=@Umpire1 ,  Umpire2=@Umpire2  where AltMatchID = @MatchID END;  END;   |  | | --- | |  |   CREATE PROCEDURE dbo.UpdateDimPlayer  @PlayerID int,  @PlayerName nvarchar(50),  @DOB nvarchar(50),  @BatID int,  @BolID int  AS  BEGIN  if not exists (select PlayerSK  from dbo.DimPlayer  where AltPlayerID = @PlayerID) BEGIN  insert into dbo.DimPlayer  (AltPlayerID, PlayerName, DOB, BattingTypeID, BowlingTypeID)  values  (@PlayerID, @PlayerName, @DOB, @BatID, @BolID)  END;  if exists (select PlayerSK  from dbo.DimPlayer  where AltPlayerID = @PlayerID) BEGIN  update dbo.DimPlayer  set AltPlayerID = @PlayerID, PlayerName = @PlayerName, DOB = @DOB,  BattingTypeID = @BatID, BowlingTypeID = @BolID  where AltPlayerID = @PlayerID END;  END; |

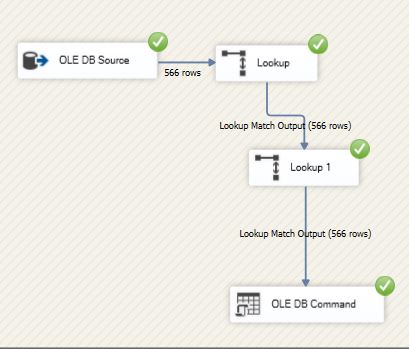
Dimensional Table Lording



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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NgAAkpIAAgAAAAM3NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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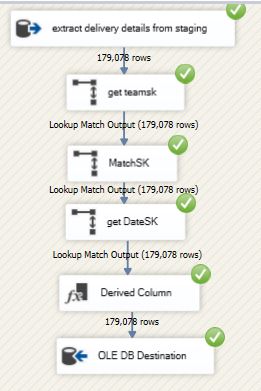
Diagram

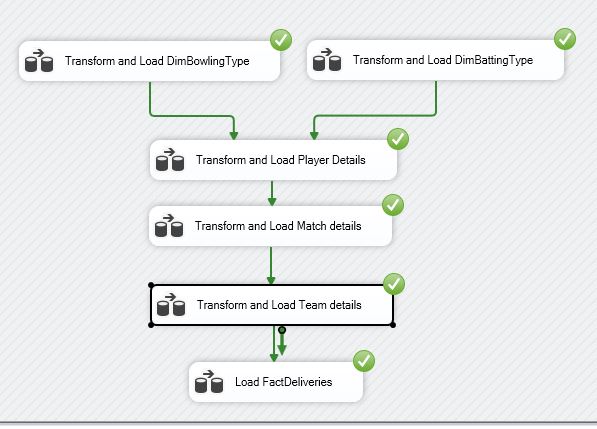
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**ELT Development Accumulating Fact Table**

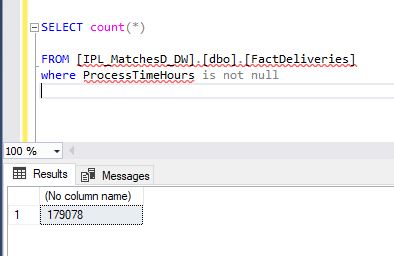
**![Diagram, funnel chart

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**Test Case**

![Graphical user interface, application, table

Description automatically 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The End

Thank You