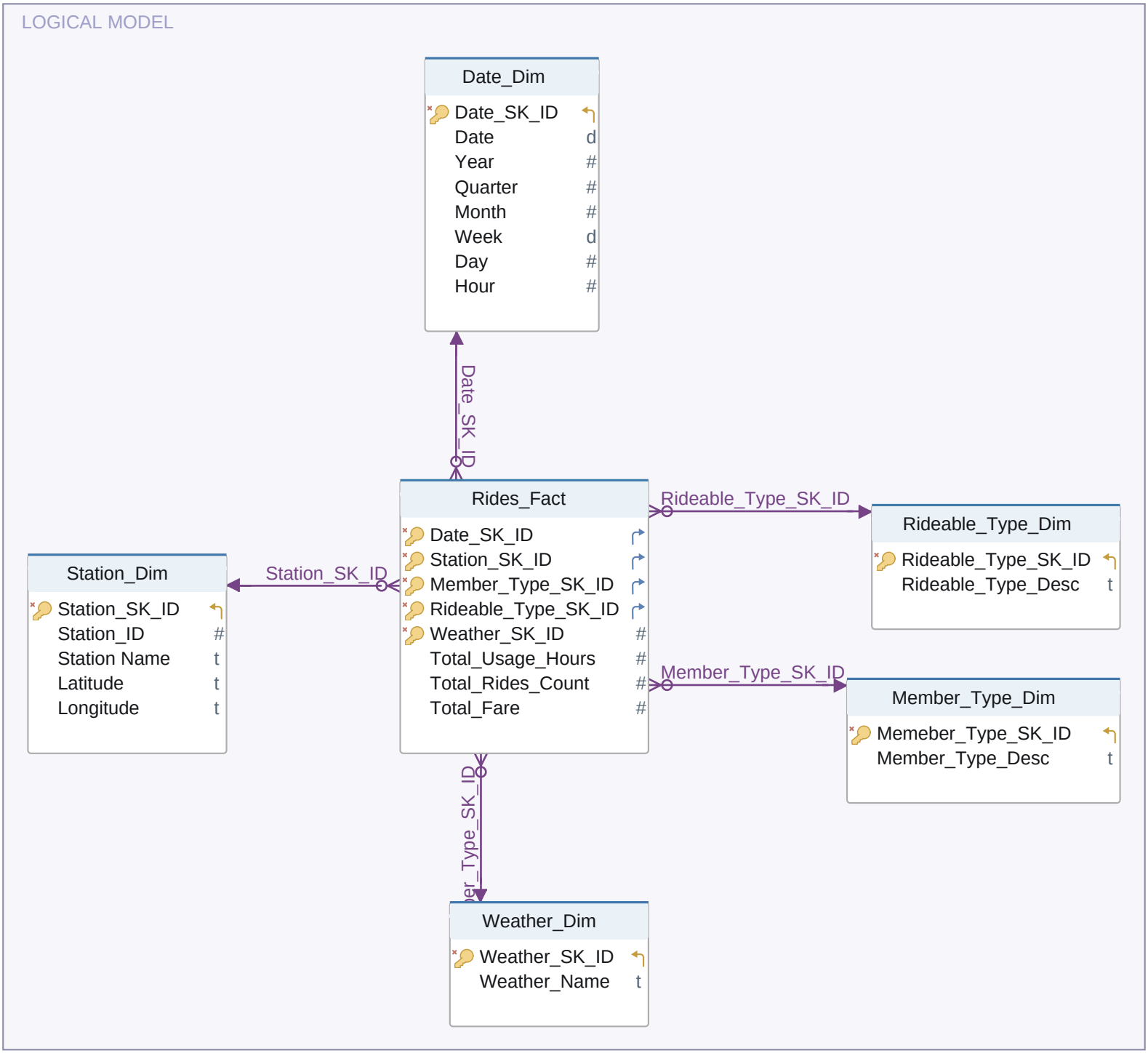
LOGICAL MODEL
Date_Dim
Date_SK_ID
Date
Year
Quarter
Month
Week
Day
Hour
Date_SK_ID
Rides_Fact
Date_SK_ID
Station_SK_ID
Member_Type_SK_ID
Rideable_Type_SK_ID
Weather_SK_ID
Total_Usage_Hours
Total_Rides_Count
Total_Fare
Rideable_Type_SK_ID
Rideable_Type_Dim
Rideable_Type_SK_ID
Rideable_Type_Desc
Station_SK_ID
Station_Dim
Station_SK_ID
Station_ID
Station Name
Latitude
Longitude
Member_Type_SK_ID
Member_Type_Dim
Memeber_Type_SK_ID
Member_Type_Desc
Weather_Dim
Weather_SK_ID
Weather_Name

Default Layout

Entity Date_Dim

Idx	Name	Data Type	Description
Represents each date			
* Pk	Date_SK_ID	INT	Surrogate key for Dates
	Date	DATE	Actual date
	Year	INT	Year of Date
	Quarter	INT	Quarter of Date
	Month	INT	Month of Date
	Week	DATE	Week of Date
	Day	INT	Day of Date
	Hour	INT	Hour of the Day

Indexes

Type	Name	On	Description
Pk	pk_Date	Date_SK_ID	

Entity Member_Type_Dim

Idx	Name	Data Type	Description
Details of the Member Type			
* Pk	Memeber_Type_SK_ID	INT	Surrogate key for Member Type
	Member_Type_Desc	TEXT	Description of the member type

Indexes

Type	Name	On	Description
Pk	pk_Membership	Memeber_Type_SK_ID	

Entity Rideable_Type_Dim

Idx	Name	Data Type	Description
Details of the Rideable Type			
* Pk	Rideable_Type_SK_ID	INT	Surrogate key for Rideable Type
	Rideable_Type_Desc	TEXT	Description of the rideable type

Indexes

Type	Name	On	Description
Pk	pk_Membership_0	Rideable_Type_SK_ID	

Entity Rides_Fact

Idx	Name	Data Type	Description
Details of the Rides			
* Pk	Date_SK_ID	INT	Surrogate key for Date
* Pk	Station_SK_ID	INT	Surrogate key for Station
* Pk	Member_Type_SK_ID	INT	Surrogate key for Member Type
* Pk	Rideable_Type_SK_ID	INT	Surrogate key for Rideable Type
* Pk	Weather_SK_ID	INT	Surrogate key for Weather
	Total_Usage_Hours	INT	Total ride duration
	Total_Rides_Count	INT	Total number of rides
	Total_Fare	INT	Total fare collected

Indexes

Type	Name	On	Description

Entity Rides_Fact

Pk	pk_Ride_Fact	Date_SK_ID, Station_SK_ID, Member_Type_SK_ID, Rideable_Type_SK_ID, Weather_SK_ID

Relationships

Type	Name	On	Description
Vir	fk_Ride_Fact_Weather_Dim (Member_Type_SK_ID) ref Weather_Dim (Weather_SK_ID)		
Vir	fk_Ride_Fact_Date_Dim (Date_SK_ID) ref Date_Dim (Date_SK_ID)		
Vir	fk_Ride_Fact_Station_Dim (Station_SK_ID) ref Station_Dim (Station_SK_ID)		
Vir	fk_Ride_Fact_Member_Type_Dim (Member_Type_SK_ID) ref Member_Type_Dim (Memeber_Type_SK_ID)		
Vir	fk_Ride_Fact_Rideable_Type_Dim (Rideable_Type_SK_ID) ref Rideable_Type_Dim (Rideable_Type_SK_ID)		

Entity Station_Dim

Idx	Name	Data Type	Description
Details of the Station			
* Pk	Station_SK_ID	INT	Surrogate key for Station
	Station_ID	INT	Unique Identifier for Station
	Station Name	VARCHAR(100)	Name of the station
	Latitude	VARCHAR	Latitude coordinate of the station
	Longitude	VARCHAR	Longitude coordinate of the station

Indexes

Type	Name	On	Description
Pk	pk_Station	Station_SK_ID	

Entity Weather_Dim

Idx	Name	Data Type	Description
Details of the Weather			
* Pk	Weather_SK_ID	INT	Surrogate key for Weather
	Weather_Name	VARCHAR(100)	Description of the weather

Indexes

Type	Name	On	Description
Pk	pk_Weather_Dim	Weather_SK_ID	