

MODULE 2 – SSIS

Data Source 1: Inpatient_provdr_Covid_Healthcare

EXCEL to SQL DB

SOURCE TABLE (Excel Car Sales & Shipment)

TARGET TABLE (SQL DB)

```
SELECT * FROM Inpatient_provdr_Covid_Healthcare_Data
```

.....

SLOWLY CHANGING DIMENSION

SOURCE TABLE (SQL DB)

ProviderDetailss Table

```
CREATE TABLE ProviderDetailss
(
    Provider_ID FLOAT PRIMARY KEY,
    Drug_ID FLOAT,
    Provider_Name VARCHAR(50) NOT NULL,
    Provider_Zip_Code FLOAT
)
```

```
SELECT * FROM ProviderDetailss
```

TARGET TABLE (SQL DB)

```
CREATE TABLE ProviderDetailss_SCD2
(
    Provider_ID FLOAT,
    Drug_ID FLOAT,
    Provider_Name VARCHAR(50),
    Provider_Zip_Code FLOAT,
    Start_date DATE,
    End_date DATE
)
```

```
SELECT * FROM ProviderDetailss_SCD2
```

```
DROP TABLE ProviderDetailss_SCD2
```

```
-- SCD1
```

```
--(Can be loaded and updated)
```

```
UPDATE ProviderDetailss SET DRUG_ID=40 WHERE Provider_ID=10006
```

-- SCD2

--(Can be loaded and stores historical data as well as new record)

UPDATE ProviderDetailss SET Provider_Zip_Code=36200 WHERE Provider_ID=30012

.....

AGGREGATE

SOURCE TABLE (SQL DB)

```
CREATE TABLE ProviderDetailss
(
    Provider_ID FLOAT PRIMARY KEY,
    Drug_ID FLOAT,
    Provider_Name VARCHAR(50) NOT NULL,
    Provider_Zip_Code FLOAT
)
```

SELECT * FROM ProviderDetailss

TARGET TABLE (SQL DB)

--Minimun of Provider_Zip_Code, Group by Drug_ID

SELECT * FROM Aggregate

Data Source 2: Insurance Claim_State_Health_Data

EXCEL to SQL DB

SOURCE TABLE (Excel Car Sales & Shipment)

TARGET TABLE (SQL DB)

```
SELECT * FROM Insurance_Claim_State_Health
```

SLOWLY CHANGING DIMENSION

SOURCE TABLE (SQL DB)

--PatientDetailss Table

```
CREATE TABLE PatientDetailss
(
    PID INT PRIMARY KEY,
    AGE INT,
    GENDER VARCHAR(50),
    DISTRICT_NAME VARCHAR(50),
    CATEGORY_CODE VARCHAR(50)
)
```

```
SELECT * FROM PatientDetailss
```

TARGET TABLE (SQL DB)

```
CREATE TABLE PatientDetailss_SCD
(
    PID INT,
    AGE INT,
    GENDER VARCHAR(50),
    DISTRICT_NAME VARCHAR(50),
    CATEGORY_CODE VARCHAR(50),
    Current_Row_Indicator VARCHAR(50)
)
```

```
SELECT * FROM PatientDetailss_SCD
```

```
DROP TABLE PatientDetailss_SCD
```

-- SCD1

--(Can be loaded and Updated)

```
UPDATE PatientDetailss SET CATEGORY_CODE= 'M6' WHERE PID=3
```

```
-- SCD2
--(Can be loaded and stores historical data as well as new record)
```

```
UPDATE PatientDetailss SET CATEGORY_CODE= 'M6' WHERE PID=30
```

AGGREGATE

SOURCE TABLE (SQL DB)

```
--PatientDetailss Table
```

```
CREATE TABLE PatientDetailss
(
    PID INT PRIMARY KEY,
    AGE INT,
    GENDER VARCHAR(50),
    DISTRICT_NAME VARCHAR(50),
    CATEGORY_CODE VARCHAR(50)
)
```

```
SELECT * FROM PatientDetailss
```

TARGET TABLE (SQL DB)

```
--Minimun of AGE
```

```
SELECT * FROM Aggregate_Patient
```

Data Source 3: Car Sales & Shipment

EXCEL to SQL DB

SOURCE TABLE (Excel Car Sales & Shipment)

TARGET TABLE (SQL DB)

SELECT * FROM Car_Sale

SLOWLY CHANGING DIMENSION

SOURCE TABLE (FALT FILE)

CAR_SupplierDetails

SupplierID, SupplierName, ProductID

1,	HEMA,	8893
2,	Tagopia,	9444
3,	Zoomdog,	253
4,	Oozz,	1283
5,	Kare,	8905
6,	Rhynyx,	8877
7,	Roombo,	101
8,	Wordify,	8854
9,	Skyvu,	9043
10,	Feedfire,	492
11,	Layo,	9212
12,	Oyoyo,	7891
13,	Quatz,	3334
14,	Gabvine,	8898
15,	Jaxspan,	4531
16,	Mybuzz,	3327
17,	Gabcube,	7975
18,	Lazz,	7029
19,	Buzzdog,	2373
20,	Yodel,	5839
21,	Innojam,	1459
22,	Skidoo,	8464
23,	Mynte,	7705
24,	Browseblab,	8048
25,	Mybuzz,	5595
26,	Photobug,	3962
27,	Flashset,	480
28,	Kamba,	7827
29,	Tazzy,	4263
30,	KIRAN,	4533

TARGET TABLE (SQL DB)

```
CREATE TABLE CAR_SupplierDetails_SCD
(
    SupplierID INT,
    SupplierName VARCHAR(50),
    ProductID INT,
    Start_Date DATE,
    End_Date DATE
)
```

```
SELECT * FROM CAR_SupplierDetails_SCD
DROP TABLE CAR_SupplierDetails_SCD
```

--SCD1

--(Can be loaded and updated)

--UPDATED SupplierName = 'HEMA' WHERE SupplierID =1 IN CAR_SupplierDetails TABLE
(Flat File)

--SCD2

--(Can be loaded and stores historical data as well as new record)

--UPDATED SupplierName = 'KIRAN' WHERE SupplierID =30 IN CAR_SupplierDetails TABLE
(Flat File)

.....

AGGREGATE

SOURCE TABLE (FALT FILE)

CAR_ProductDetails

ProductID	CarModel	CarPrice
8893,	Ram 2500,	521963.45
9444,	Tundra,	672222.04
253,	Savana 1500,	504465.72
1283,	Cabriolet,	646077.11
8905,	Mariner,	699890.24
8877,	Land Cruiser,	694373.94
101,	Impreza,	546977.55
8854,	X6,	528353.8
9043,	Galant,	706964.35
492,	Justy,	798573.59
9212,	M-Class,	722114.57
7891,	Taurus X,	761182.85
3334,	CL-Class,	568015.89
8898,	Avenger,	646591.02
4531,	Pathfinder,	670304.84
3327,	M3,	728986.85
7975,	R-Class,	665854.24
7029,	FCX Clarity,	707705.42

2373,	Corolla,	563380.63
5839,	Tempo,	686028.43
1459,	SL-Class,	526717.03
8464,	Monte Carlo,	569743.98
7705,	Continental Flying Spur,	649917
8048,	Celica,	702988.61
5595,	7 Series,	767834.18
3962,	Cube,	669596.52
480,	Ram 1500 Club,	515209.24
7827,	Regal,	649144
4263,	3500,	655358.88
4533,	Grand Prix,	695215.79

TARGET TABLE (SQL DB)

--Maximum of CarPrice Group By CarModel

SELECT * FROM Aggregate_Product