**Lessons Learned Report**

**Difficulties:**

While I am trying to split the Doctor names into first and last names there are Dr., Mr. which are being considered as first name and the rest was split into last name so where I cleansed the raw data first then I used the cleaned data for splitting using substitute method.

While removing duplicates from the doctor list I forgot to copy as text data where it got copied as formula data which caused weird result when I tried to remove duplicates and then I got to know and copied as text and then removed duplicates and utilized the non-duplicate data for next steps.

When I am trying to VLOOKUP to look for the column 2 matching and return column 1 data which couldn’t let me do using that where I used XLOOKUP

When I tried to import data, I forgot to change the data type for the billing amount which got an error and then I did give data type as currency and imported data which ran as expected.

**Designed Queries:**

Query1 :Designed to get data for every patients medical condition and test result with billing amount

SQl :

SELECT [Patient Dimension Table].PatientID, [Patient Dimension Table].PatientName, [Patient Dimension Table].MedicalCondition

FROM [Patient Dimension Table] INNER JOIN ([Doctor Dimension Table] INNER JOIN ([Date Dimension Table] INNER JOIN [HealthCare Record Fact Table] ON [Date Dimension Table].DateID = [HealthCare Record Fact Table].AdmissionDateID) ON [Doctor Dimension Table].DoctorID = [HealthCare Record Fact Table].DoctorID) ON [Patient Dimension Table].PatientID = [HealthCare Record Fact Table].PatientID;

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Query2 : will get the Doctors and their billingamount for each doctor in an ascending order of doctor ID’s

Sql:

SELECT [HealthCare Record Fact Table].DoctorID, [Doctor Dimension Table].FirstName, [Doctor Dimension Table].LastName, [HealthCare Record Fact Table].BillingAmount

FROM [Patient Dimension Table] INNER JOIN ([Doctor Dimension Table] INNER JOIN ([Date Dimension Table] INNER JOIN [HealthCare Record Fact Table] ON [Date Dimension Table].DateID = [HealthCare Record Fact Table].AdmissionDateID) ON [Doctor Dimension Table].DoctorID = [HealthCare Record Fact Table].DoctorID) ON [Patient Dimension Table].PatientID = [HealthCare Record Fact Table].PatientID

ORDER BY [HealthCare Record Fact Table].DoctorID;

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Query3: will get the data of the patients and their blood type and age and gender

Sql:

SELECT [Patient Dimension Table].PatientID, [Patient Dimension Table].PatientName, [Patient Dimension Table].Age, [Patient Dimension Table].Gender, [Patient Dimension Table].BloodType

FROM [Patient Dimension Table] INNER JOIN ([Doctor Dimension Table] INNER JOIN ([Date Dimension Table] INNER JOIN [HealthCare Record Fact Table] ON [Date Dimension Table].DateID = [HealthCare Record Fact Table].AdmissionDateID) ON [Doctor Dimension Table].DoctorID = [HealthCare Record Fact Table].DoctorID) ON [Patient Dimension Table].PatientID = [HealthCare Record Fact Table].PatientID;

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Query4 : will get the data for the patients insurance providers

Sql:

SELECT [Patient Dimension Table].PatientID, [Patient Dimension Table].PatientName, [Patient Dimension Table].InsuranceProvider

FROM [Patient Dimension Table] INNER JOIN ([Doctor Dimension Table] INNER JOIN ([Date Dimension Table] INNER JOIN [HealthCare Record Fact Table] ON [Date Dimension Table].DateID = [HealthCare Record Fact Table].AdmissionDateID) ON [Doctor Dimension Table].DoctorID = [HealthCare Record Fact Table].DoctorID) ON [Patient Dimension Table].PatientID = [HealthCare Record Fact Table].PatientID;

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Query 5:

Will get the data of the patients and their respective doctor they got the treatment from and the hospital they got the treatment.

Sql:

SELECT [Patient Dimension Table].PatientID, [Patient Dimension Table].PatientName, [Doctor Dimension Table].FirstName, [Doctor Dimension Table].LastName, [Doctor Dimension Table].Hospital

FROM [Patient Dimension Table] INNER JOIN ([Doctor Dimension Table] INNER JOIN ([Date Dimension Table] INNER JOIN [HealthCare Record Fact Table] ON [Date Dimension Table].DateID = [HealthCare Record Fact Table].AdmissionDateID) ON [Doctor Dimension Table].DoctorID = [HealthCare Record Fact Table].DoctorID) ON [Patient Dimension Table].PatientID = [HealthCare Record Fact Table].PatientID;

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