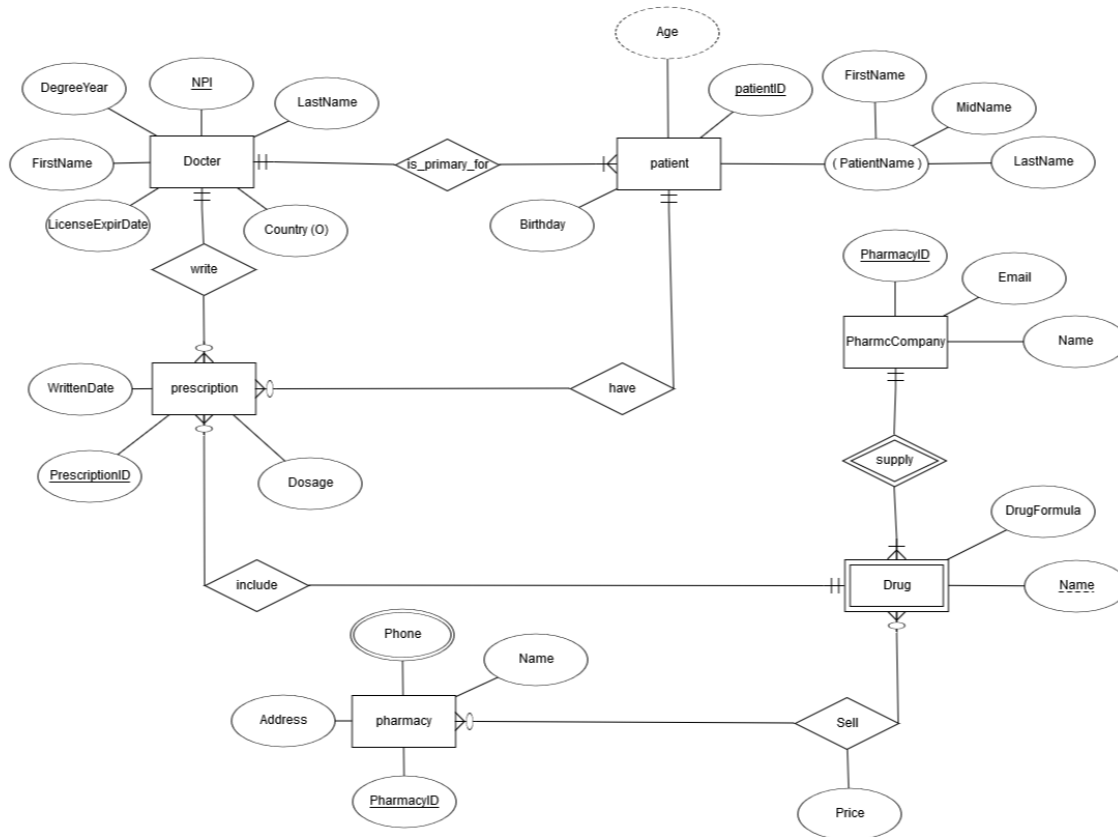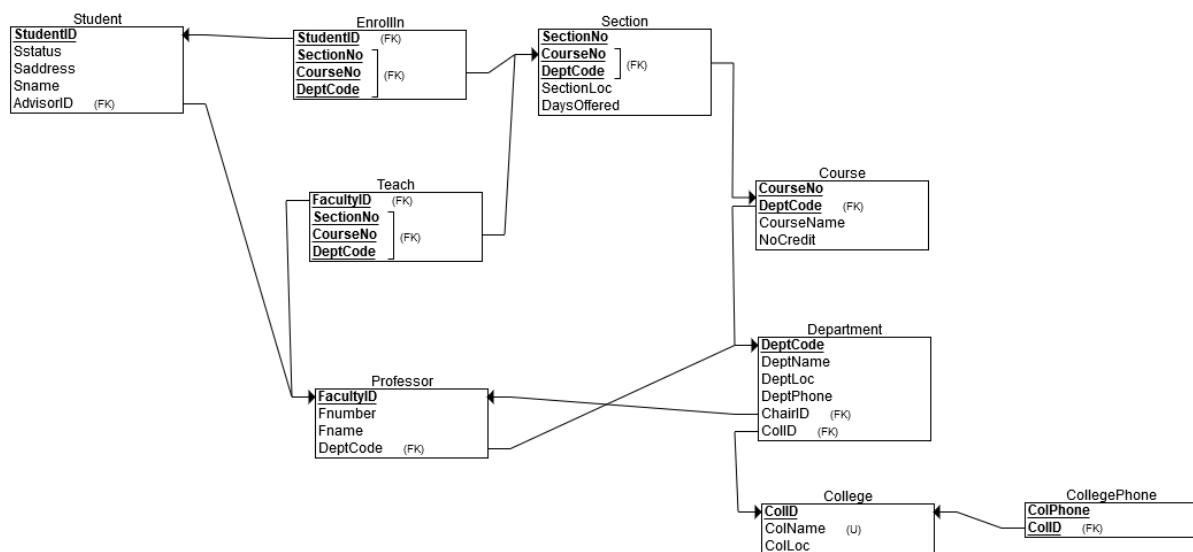# Database
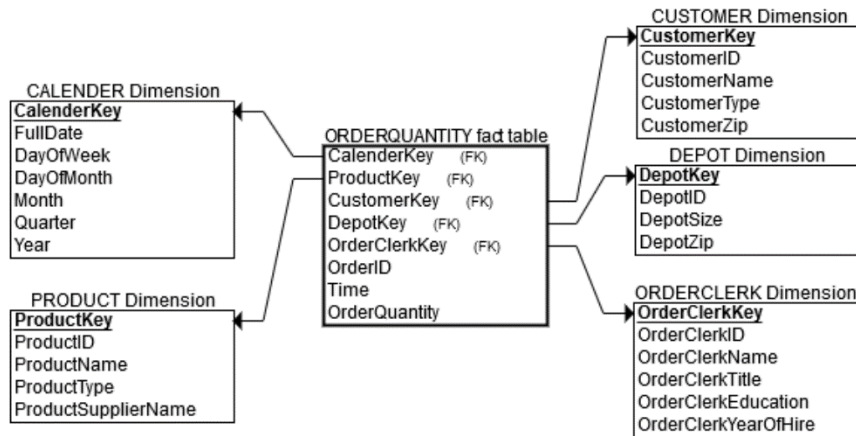
ERD

Relational Schema
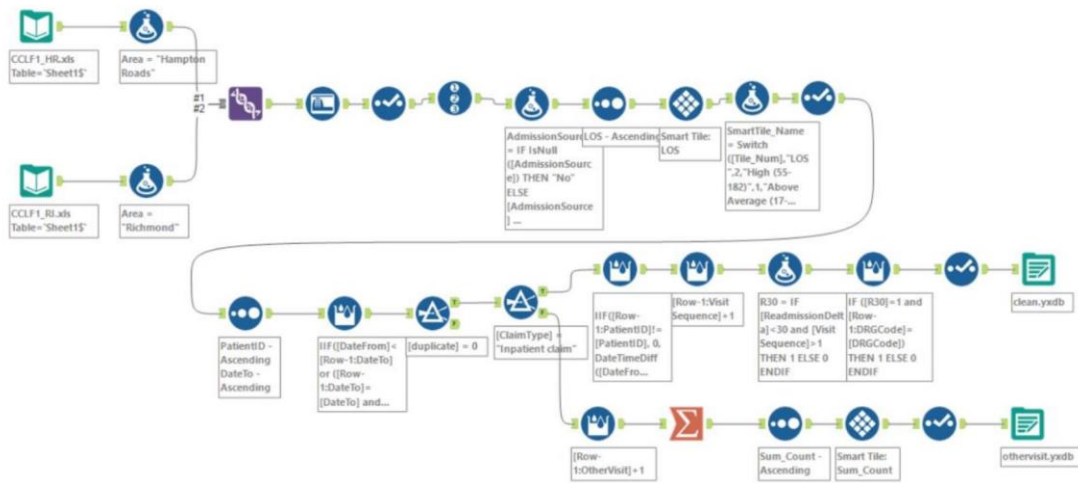
Star Schema 1

Star Schema 2

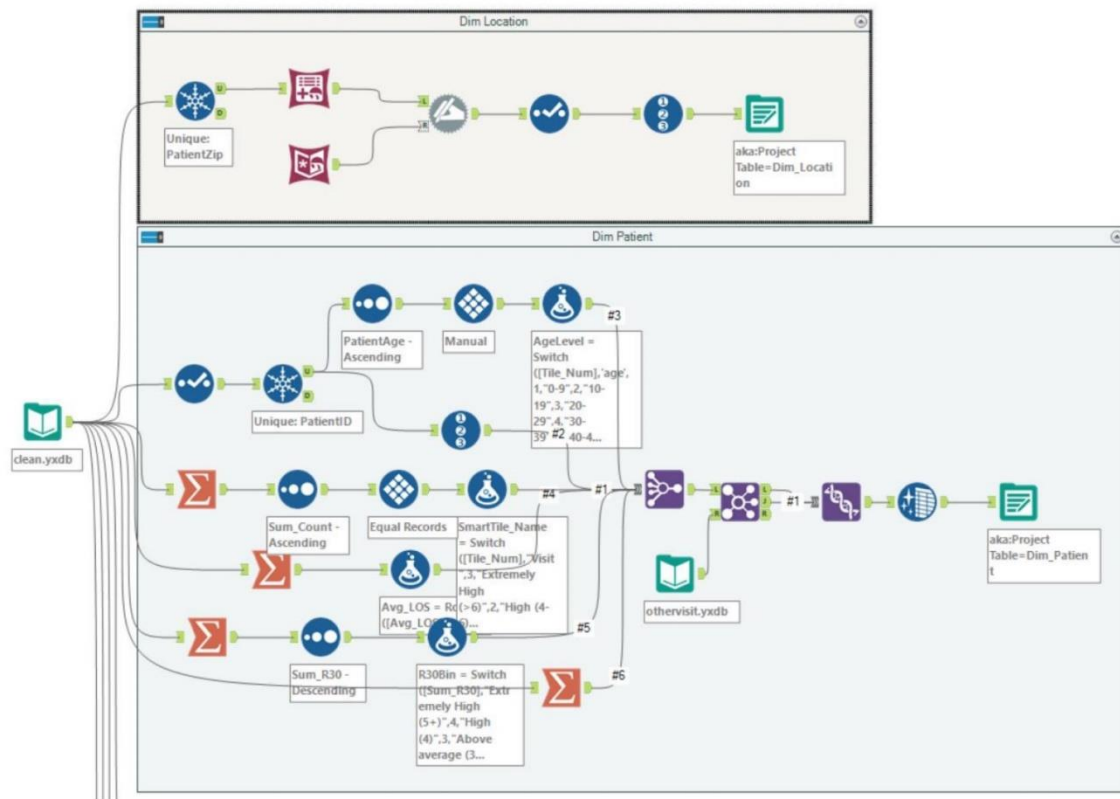# ETL-Data Cleaning
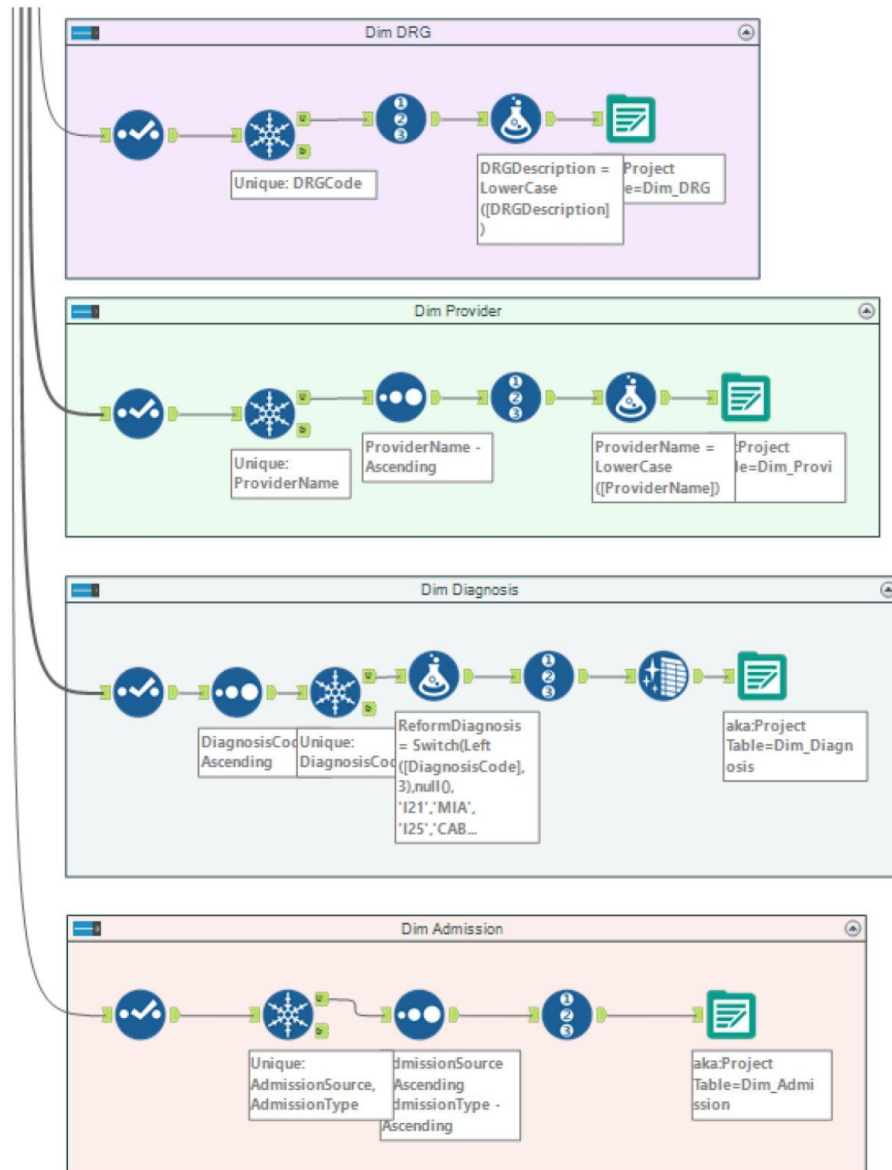
CCLF1_HR.xls
Table="Sheet1$"

Area = "Hampton
Roads"

#1
#2

AdmissionSourc
e = IF IsNull
([AdmissionSourc
e]) THEN "No"
ELSE
[AdmissionSource
] ...

LOS - Ascending

Smart Tile:
LOS

SmartTile_Name
= Switch
([Tile_Num],"LOS
",2,"High (55-
182)",1,"Above
Average (17-...

CCLF1_RI.xls
Table="Sheet1$"

Area =
"Richmond"

PatientID -
Ascending
DateTo -
Ascending

IIF([DateFrom]<
[Row-1:DateTo]
or ([Row-
1:DateTo]=
[DateTo] and...

[duplicate] = 0

[ClaimType] =
"Inpatient claim"

IIF([Row-
1:PatientID]!=
[PatientID], 0,
DateTimeDiff
([DateFro...

[Row-1:Visit
Sequence]+1

R30 = IF
[ReadmissionDelt
a]<30 and [Visit
Sequence]>1
THEN 1 ELSE 0
ENDIF

IF ([R30]=1 and
[Row-
1:DRGCode]=
[DRGCode])
THEN 1 ELSE 0
ENDIF

clean.yxdb

[Row-
1:OtherVisit]+1

Sum_Count -
Ascending

Smart Tile:
Sum_Count

othervisit.yxdb

ETL-Building dimensions for data warehouse 1

Appendix C: ETL Dimensions

Dim Location

Unique:
PatientZip

aka:Project
Table=Dim_Locati
on

Dim Patient

clean.yxdb

PatientAge -
Ascending

Manual

AgeLevel =
Switch
([Tile_Num],"age",
1,"0-9",2,"10-
19",3,"20-
29",4,"30-
39" #2 40-4...

#3

Unique: PatientID

Sum_Count -
Ascending

Equal Records

SmartTile_Name
= Switch
([Tile_Num],"Visit
",3,"Extremely
High

Avg_LOS = Rd(>6)",2,"High (4-
([Avg_LO... 6)...

#4 #1

othervisit.yxdb

#5

Sum_R30 -
Descending

R30Bin = Switch
([Sum_R30],"Extr
emely High
(5+)",4,"High
(4)",3,"Above
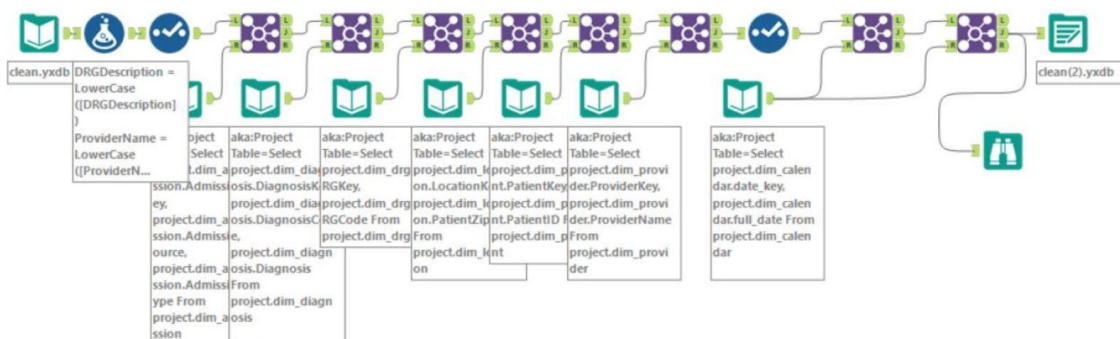average (3...

#6

#1

aka:Project
Table=Dim_Patien
t

ETL-Building dimensions for data warehouse 2

ETL-Building fact table

Appendix D: Building the Fact table in ETL

ETL-Incorporate data from other data sources.

Appendix E: Combining the Databases