* Main table for all queries

**SELECT** Discharge\_Year, Hospital\_County , Type\_of\_Admission , CCSR\_Diagnosis\_Description ,

Gender, Race , Ethnicity , Age\_Group, Length\_of\_Stay,**count**(\*) **AS** patient\_count, Payment\_Typology\_1 ,

round(**sum**(Total\_Costs),2) **AS** total\_costs,

round(**sum**(total\_charges),2) **AS** total\_chargers,

round(**avg**(Total\_Charges),2)**AS** avg\_total\_chargers,

round(**avg**(Total\_Costs),2) **AS** avg\_total\_costs

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Hospital\_County , Type\_of\_Admission ,CCSR\_Diagnosis\_Description ,Age\_Group ,

Gender, Race, Ethnicity, Payment\_Typology\_1

* Top 5 diagnosis by admission

**WITH** cte **as**(

**SELECT** CCSR\_Diagnosis\_Description, **count**(\*)**AS** Total\_visits,

**CASE** **WHEN** Type\_of\_Admission = **'Emergency'** **THEN** **'Emergency'**

**WHEN** Type\_of\_Admission = **'Elective'** **THEN** **'Elective'**

**WHEN** Type\_of\_Admission = **'Urgent'** **THEN** **'Urgent'**

**ELSE** **'Other'**

**END** **AS** admission\_type,

**ROW\_NUMBER** () **OVER** (**PARTITION** **BY**

**CASE** **WHEN** Type\_of\_Admission = **'Emergency'** **THEN** **'Emergency'**

**WHEN** Type\_of\_Admission = **'Elective'** **THEN** **'Elective'**

**WHEN** Type\_of\_Admission = **'Urgent'** **THEN** **'Urgent'**

**ELSE** **'Other'**

**END** **ORDER** **BY** **count** (\*)**DESC**) **AS** row\_num

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** ccsr\_diagnosis\_Description

)

**SELECT** CCSR\_Diagnosis\_Description , total\_visits, admission\_type

**FROM** cte

**WHERE** admission\_type **IN** (**'Emergency'**,**'Elective'**,**'Urgent'** )

**AND** row\_num <= 5

**ORDER** **BY** admission\_type, Total\_visits **DESC**

--patient demographics - only medicare payments

**SELECT** Hospital\_Service\_Area , Hospital\_County ,

Gender, Race , Ethnicity ,

**count**(\*) **AS** patient\_count

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Hospital\_Service\_Area , Hospital\_County ,

Gender, Race, Ethnicity, Payment\_Typology\_1

--count by age group

**SELECT** Hospital\_County , Age\_Group, **COUNT**(\*) patient\_count

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Hospital\_County, Age\_Group

--counties with most visits

**SELECT** **DISTINCT** Hospital\_Service\_Area , Hospital\_County, **count**(\*) **AS** total\_visits

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Hospital\_County

**ORDER** **BY** total\_visits **DESC**

--LIMIT 10

--types of admision per county - only medicare payments

**SELECT** hospital\_County ,

Type\_of\_Admission, **count** (\*)**as** Total\_visits

**from** Hospital\_Data hd

**where** Payment\_Typology\_1 = **'Medicare'**

**group** **by** Hospital\_County,

Type\_of\_Admission

**order** **by** Hospital\_County ,

Total\_visits **desc**

--same total numbers overall

**SELECT** Type\_of\_Admission, **count** (\*)**as** Total\_visits

**from** Hospital\_Data hd

**where** Payment\_Typology\_1 = **'Medicare'**

**group** **by** Type\_of\_Admission

**order** **by** Total\_visits **desc**

----------------------------------------------------------

--total/ave charges and total/avg costs

**SELECT** round(**sum**(Total\_Charges),2) **AS** Total\_Charges ,

round(**avg**(Total\_Charges),2)**AS** avg\_total\_chargers,

round(**sum**(Total\_Costs),2) **AS** total\_costs,

round(**avg**(Total\_Costs),2) **AS** avg\_total\_costs

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

--total charges BY admission type

**SELECT** Type\_of\_Admission , round(**sum**(Total\_Charges),2) **AS** Total\_Charges ,

round(**sum**(Total\_Costs),2) **AS** total\_costs,

round(**sum**(total\_charges) - **sum**(total\_Costs),2) **AS** difference,

round(**avg**(Total\_Charges),2)**AS** avg\_total\_chargers,

round(**avg**(Total\_Costs),2) **AS** avg\_total\_costs

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Type\_of\_Admission

**ORDER** **BY** Total\_Charges **desc**

--same with county and difference of $

**SELECT** Hospital\_County , Type\_of\_Admission ,

round(**sum**(Total\_Charges),2) **AS** Total\_Charges ,

round(**sum**(Total\_Costs),2) **AS** total\_costs,

round(**sum**(total\_charges) - **sum**(total\_Costs),2) **AS** difference

--round(avg(Total\_Charges),2)AS avg\_total\_chargers,

--round(avg(Total\_Costs),2) AS avg\_total\_costs

**FROM** Hospital\_Data hd

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Hospital\_County , Type\_of\_Admission

**ORDER** **BY** Total\_Charges **desc**

--charges and totl by payment typology

**SELECT** Hospital\_County , Payment\_Typology\_1,

**SUM**(Total\_Charges) **AS** Total\_Charges,

**SUM**(Total\_Costs) **AS** Total\_Costs

**FROM** hospital\_data

**WHERE** Payment\_Typology\_1 = **'Medicare'**

**GROUP** **BY** Payment\_Typology\_1 , Hospital\_County

**ORDER** **BY** Total\_Charges **DESC**

--avg length of stay age group, race, ethnicity by county

**SELECT** Hospital\_County,

Age\_Group,

Race,

ethnicity,

round(**AVG**(Length\_of\_Stay),2) **AS** Avg\_Length\_of\_Stay

**FROM** hospital\_data

**GROUP** **BY** Hospital\_County, Age\_Group, Race, Ethnicity

**ORDER** **BY** Hospital\_County, Age\_Group, Race