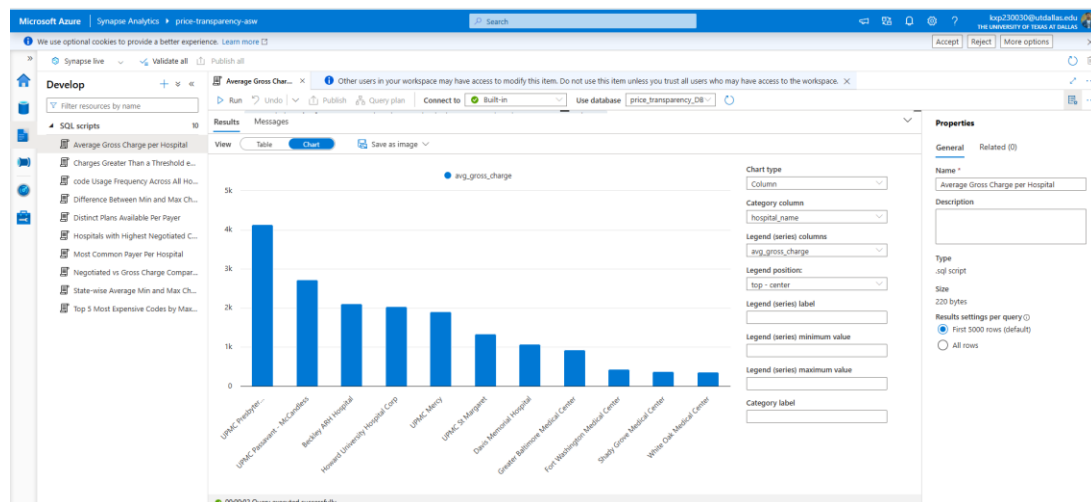


SQL COMMANDS

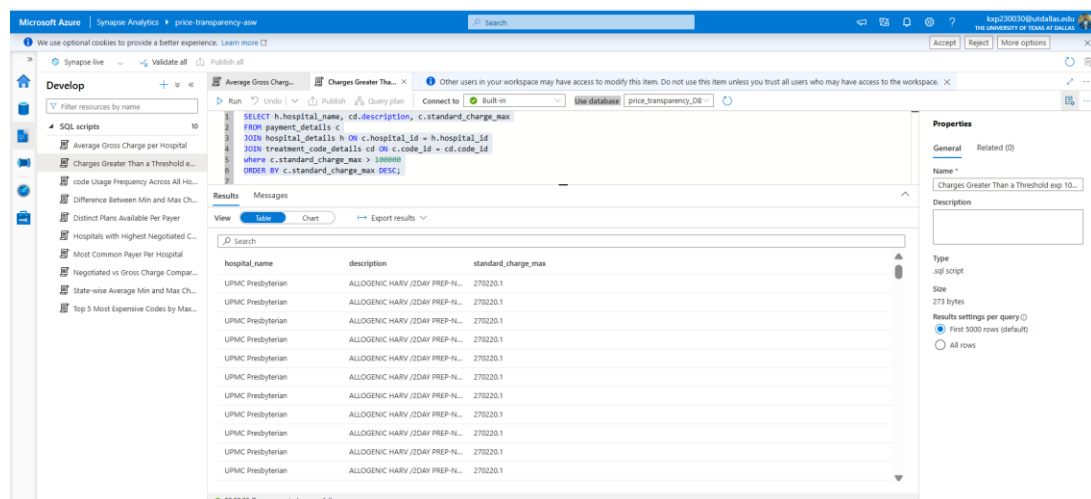
1. Average Gross Charge per Hospital

```
SELECT h.hospital_name, ROUND(AVG(c.standard_charge_gross), 2) AS
avg_gross_charge
FROM payment_details c
JOIN hospital_details h ON c.hospital_id = h.hospital_id
GROUP BY h.hospital_name
ORDER BY avg_gross_charge DESC;
```



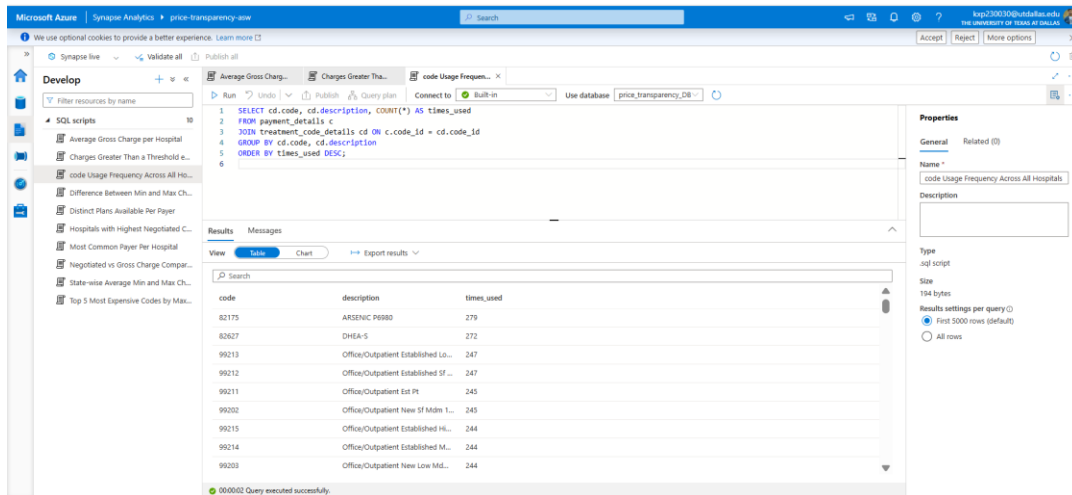
2. Charges Greater Than a Threshold exp 100000

```
SELECT h.hospital_name, cd.description, c.standard_charge_max
FROM payment_details c
JOIN hospital_details h ON c.hospital_id = h.hospital_id
JOIN treatment_code_details cd ON c.code_id = cd.code_id
where c.standard_charge_max > 100000
ORDER BY c.standard_charge_max DESC;
```



3. Code Usage Frequency Across All Hospitals

```
SELECT cd.code, cd.description, COUNT(*) AS times_used
FROM payment_details c
JOIN treatment_code_details cd ON c.code_id = cd.code_id
GROUP BY cd.code, cd.description
ORDER BY times_used DESC;
```



Microsoft Azure Synapse Analytics - price-transparency-ase

Develop

SQL scripts

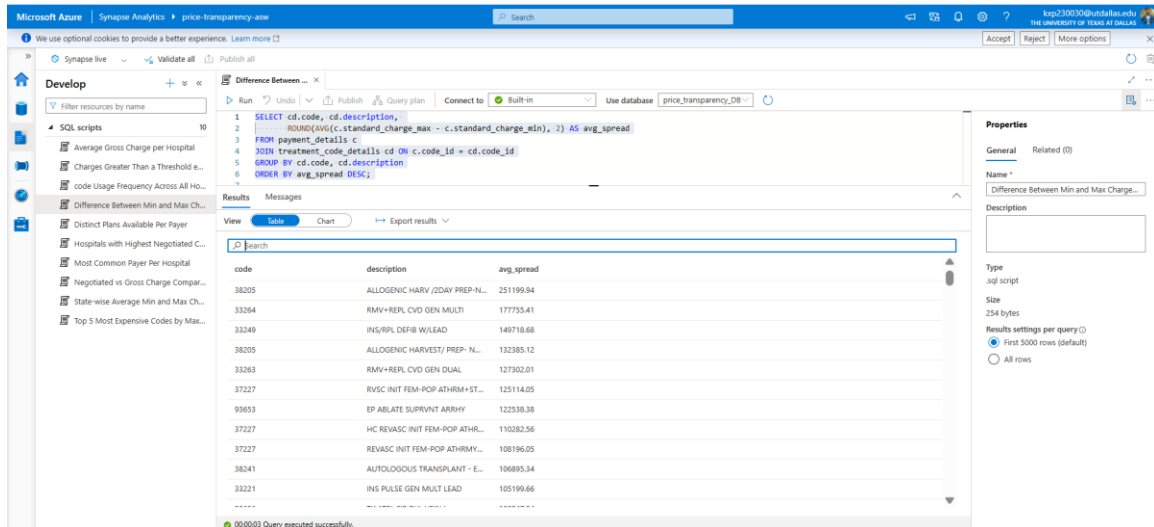
code Usage Frequency Across All Ho...

Results

code	description	times_used
82175	ARSENIC P680	279
82627	DHEA-S	272
99213	Office/Outpatient Established La...	247
99212	Office/Outpatient Established SF ...	247
99211	Office/Outpatient Est Pt	245
99202	Office/Outpatient New SF Mdm L...	245
99215	Office/Outpatient Established HL...	244
99214	Office/Outpatient Established M...	244
99203	Office/Outpatient New Low Mdm...	244

4. Difference Between Min and Max Charges by Code

```
SELECT cd.code, cd.description,
       ROUND(AVG(c.standard_charge_max - c.standard_charge_min), 2) AS
avg_spread
FROM payment_details c
JOIN treatment_code_details cd ON c.code_id = cd.code_id
GROUP BY cd.code, cd.description
ORDER BY avg_spread DESC;
```



Microsoft Azure Synapse Analytics - price-transparency-ase

Develop

SQL scripts

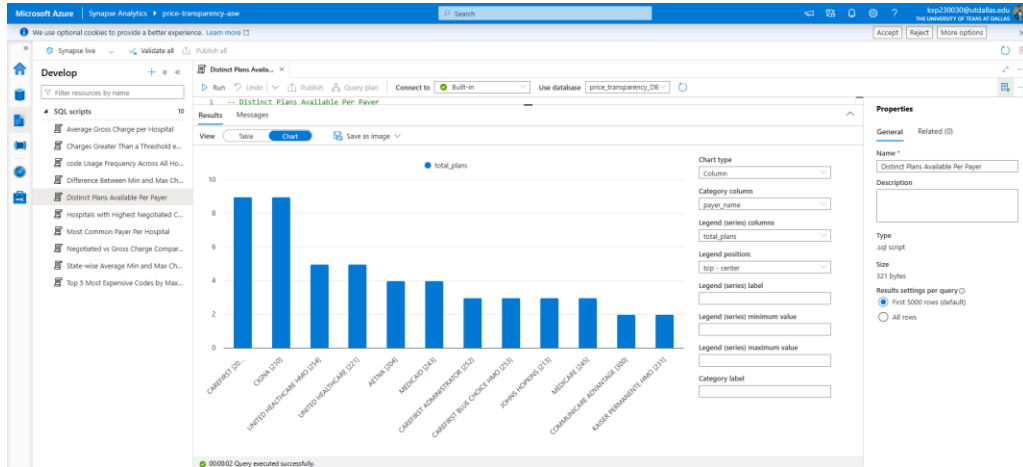
Difference Between Min and Max Ch...

Results

code	description	avg_spread
38205	ALLOGENIC HARV /ZDAY PREP-NL...	251199.94
33264	RMV+REPL CVD GEN MULTI	177755.41
33249	INS/RPL DEFIB W/LEAD	149718.68
38205	ALLOGENIC HARVEST/ PREP- NL...	132385.12
33283	RMV+REPL CVD GEN DUAL	127902.01
37227	RVSC INIT FEM-POP ATHRMA+ST...	125114.05
93653	EP ABLATE SUPRVNT ARSHY	122538.38
37227	HC REVASC INIT FEM-POP ATRL...	110282.56
37227	REVASC INIT FEM-POP ATHRMV...	108196.05
38241	AUTOLOGOUS TRANSPLANT - E...	106895.34
33221	INS PULSE GEN MULT LEAD	105199.66

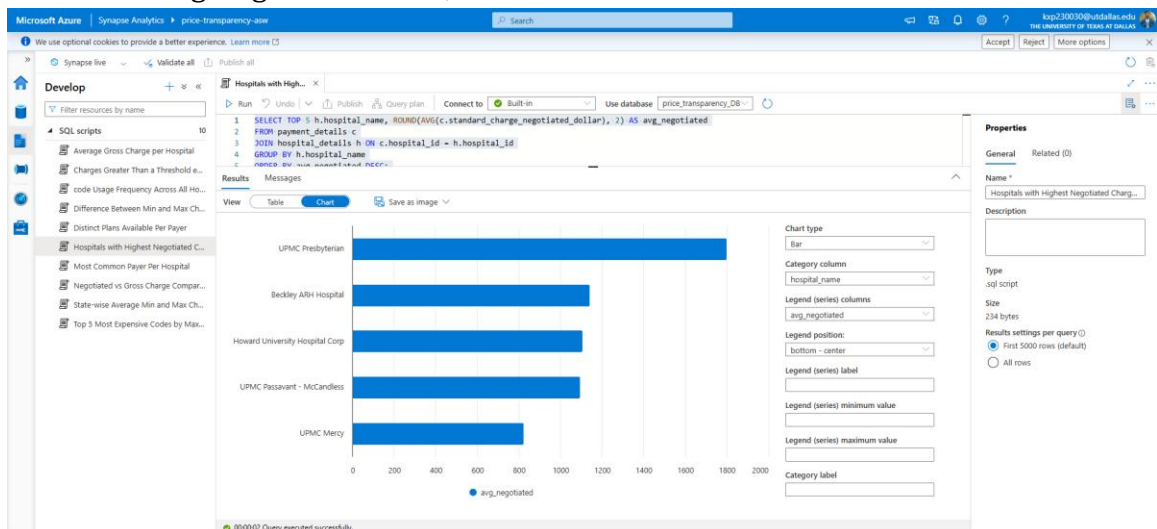
5. Distinct Plans Available Per Payer

```
SELECT p.payer_name, COUNT(DISTINCT pl.plan_name) AS total_plans
FROM payment_details c
JOIN payer_name_details p ON c.payer_id = p.payer_id
JOIN plan_name_details pl ON c.plan_id = pl.plan_id
GROUP BY p.payer_name
HAVING COUNT(DISTINCT pl.plan_name) >= 2
ORDER BY total_plans DESC;
```



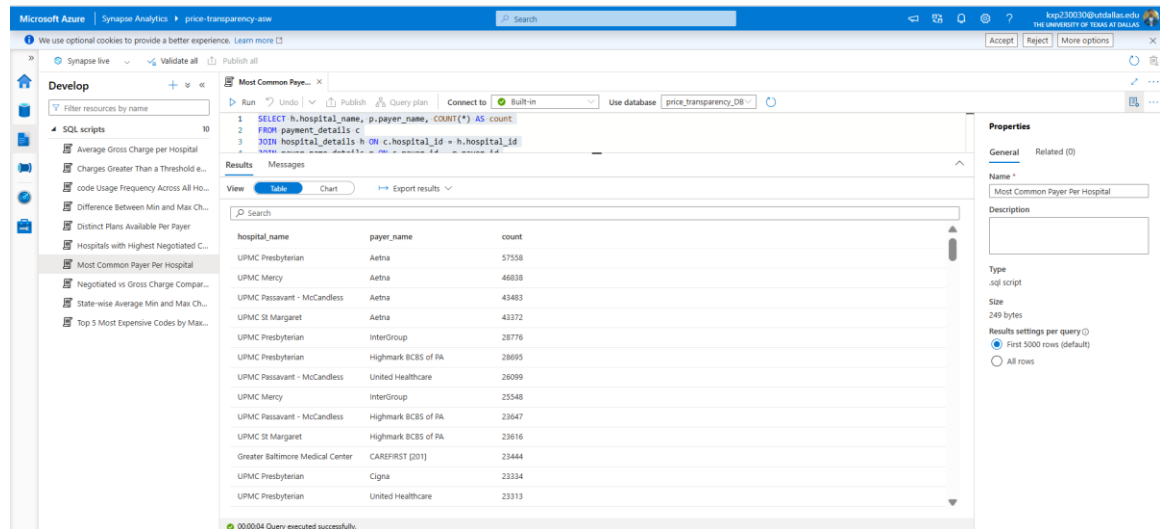
6. Hospitals with Highest Negotiated Charge Averages

```
SELECT TOP 5 h.hospital_name,
ROUND(AVG(c.standard_charge_negotiated_dollar), 2) AS avg_negotiated
FROM payment_details c
JOIN hospital_details h ON c.hospital_id = h.hospital_id
GROUP BY h.hospital_name
ORDER BY avg_negotiated DESC;
```



7. Most Common Payer Per Hospital

```
SELECT h.hospital_name, p.payer_name, COUNT(*) AS count
FROM payment_details c
JOIN hospital_details h ON c.hospital_id = h.hospital_id
JOIN payer_name_details p ON c.payer_id = p.payer_id
GROUP BY h.hospital_name, p.payer_name
ORDER BY count DESC;
```

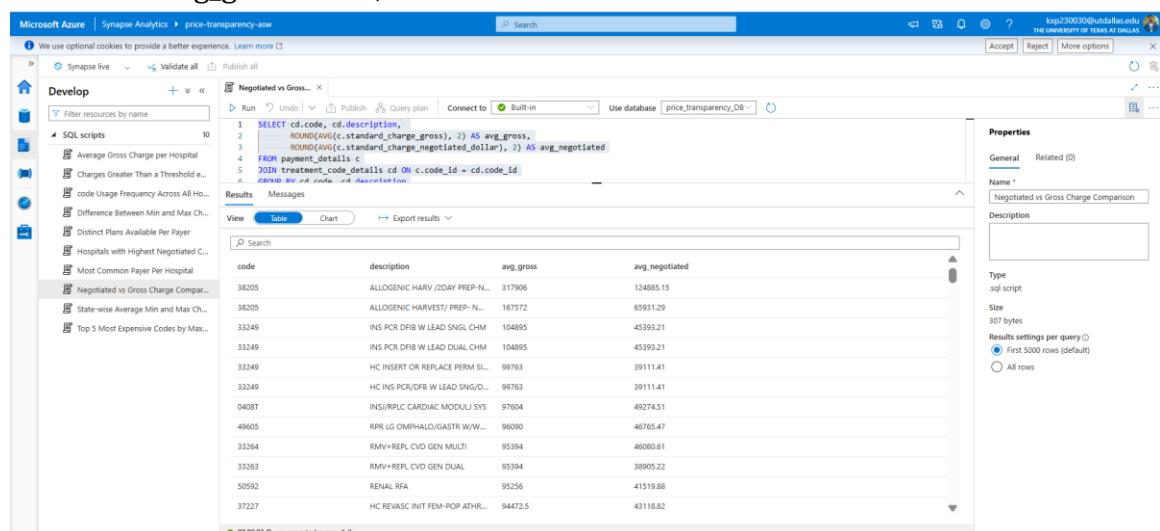


The screenshot shows the Microsoft Azure Synapse Analytics interface. The query editor displays the SQL query for finding the most common payer per hospital. The results are shown in a table with columns: hospital_name, payer_name, and count. The results are ordered by count in descending order.

hospital_name	payer_name	count
UPMC Presbyterian	Aetna	57558
UPMC Mercy	Aetna	46838
UPMC Passavant - McCandless	Aetna	43483
UPMC St Margaret	Aetna	43372
UPMC Presbyterian	InterGroup	28776
UPMC Presbyterian	Highmark BCBS of PA	28695
UPMC Passavant - McCandless	United Healthcare	26099
UPMC Mercy	InterGroup	25548
UPMC Passavant - McCandless	Highmark BCBS of PA	23647
UPMC St Margaret	Highmark BCBS of PA	23616
Greater Baltimore Medical Center	CAREFIRST [01]	23444
UPMC Presbyterian	Cigna	23334
UPMC Presbyterian	United Healthcare	23313

8. Negotiated vs Gross Charge Comparison

```
SELECT cd.code, cd.description,
       ROUND(AVG(c.standard_charge_gross), 2) AS avg_gross,
       ROUND(AVG(c.standard_charge_negotiated_dollar), 2) AS avg_negotiated
FROM payment_details c
JOIN treatment_code_details cd ON c.code_id = cd.code_id
GROUP BY cd.code, cd.description
ORDER BY avg_gross DESC;
```

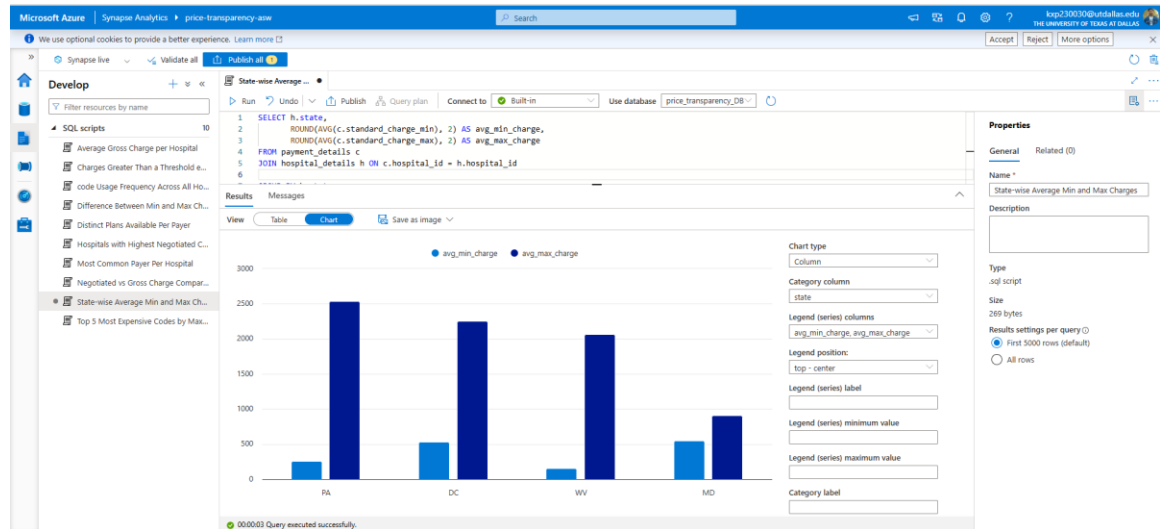


The screenshot shows the Microsoft Azure Synapse Analytics interface. The query editor displays the SQL query for comparing negotiated vs gross charges. The results are shown in a table with columns: code, description, avg_gross, and avg_negotiated. The results are ordered by avg_gross in descending order.

code	description	avg_gross	avg_negotiated
38205	ALLOGENIC HARY /ZDAY PREP-NL...	317906	124885.15
38205	ALLOGENIC HARVEST/ PREP- NL...	167572	65931.29
33249	INS PCR DRIB W LEAD SNGL CHM	104895	45393.21
33249	INS PCR DRIB W LEAD DUAL CHM	104895	45393.21
33249	HC INSERT OR REPLACE PERM SL...	99763	39111.41
33249	HC INS PCR/DRB W LEAD SNG/D...	99763	39111.41
0408T	INS/RPLC CARDIAC MODULU SYS	97604	49274.51
49605	RPR LG OMPHALO/GASTR W/W...	96090	46765.47
33264	RMV+REPL CVD GEN MULTI	95394	46080.61
33263	RMV+REPL CVD GEN DUAL	95394	38905.22
50592	RENAL RFA	95256	41519.88
37227	HC REVASC INT FEM-POP ATHRL...	94472.5	43118.82

9. State-wise Average Min and Max Charges

```
SELECT h.state,  
       ROUND(AVG(c.standard_charge_min), 2) AS avg_min_charge,  
       ROUND(AVG(c.standard_charge_max), 2) AS avg_max_charge  
FROM payment_details c  
JOIN hospital_details h ON c.hospital_id = h.hospital_id  
GROUP BY h.state  
ORDER BY avg_max_charge DESC;
```



10. Top 5 Most Expensive Codes by Max Charge

```
SELECT TOP 5 cd.code, cd.description, MAX(c.standard_charge_max) AS  
max_charge  
FROM payment_details c  
JOIN treatment_code_details cd ON c.code_id = cd.code_id  
GROUP BY cd.code, cd.description  
ORDER BY max_charge DESC;
```

code	description	max_charge
36205	ALLOGENIC HARV /DOAY PREP-NL...	270220.1
33249	INS/RPL DRIB W/LEAD	177951.41
33264	RMV+RPL CVD GEN MULTI	177951.41
37227	RVSC INIT FEM-POP ATHRM+ST...	162087.36
36241	AUTOLOGOUS TRANSPLANT - E...	157615