In [27]:
```
import duckdb
conn = duckdb.connect()
import matplotlib
%matplotlib
%pip install jupysql
%env PLOOMBER_STATS_ENABLED="false"
%env PLOOMBER_VERSION_CHECK_DISABLED="false"
%pip install -U "jupysql[plot]" matplotlib seaborn

%load_ext sql
```

```
Using matplotlib backend: inline
```

```
Requirement already satisfied: jupysql in c:\users\lbana\documents\csprojects\when2g
o\.venv\lib\site-packages (0.11.1)
Requirement already satisfied: prettytable>=3.12.0 in c:\users\lbana\documents\cspro
jects\when2go\.venv\lib\site-packages (from jupysql) (3.16.0)
Requirement already satisfied: sqlalchemy in c:\users\lbana\documents\csprojects\whe
n2go\.venv\lib\site-packages (from jupysql) (2.0.43)
Requirement already satisfied: sqlparse in c:\users\lbana\documents\csprojects\when2
go\.venv\lib\site-packages (from jupysql) (0.5.3)
Requirement already satisfied: ipython-genutils>=0.1.0 in c:\users\lbana\documents\c
sprojects\when2go\.venv\lib\site-packages (from jupysql) (0.2.0)
Requirement already satisfied: jinja2 in c:\users\lbana\documents\csprojects\when2go
\.venv\lib\site-packages (from jupysql) (3.1.6)
Requirement already satisfied: sqlglot>=11.3.7 in c:\users\lbana\documents\csproject
s\when2go\.venv\lib\site-packages (from jupysql) (27.18.0)
Requirement already satisfied: jupysql-plugin>=0.4.2 in c:\users\lbana\documents\csp
rojects\when2go\.venv\lib\site-packages (from jupysql) (0.4.5)
Requirement already satisfied: ploomber-core>=0.2.7 in c:\users\lbana\documents\cspr
ojects\when2go\.venv\lib\site-packages (from jupysql) (0.2.27)
Requirement already satisfied: pyyaml in c:\users\lbana\documents\csprojects\when2go
\.venv\lib\site-packages (from ploomber-core>=0.2.7->jupysql) (6.0.2)
Requirement already satisfied: posthog>=3.0 in c:\users\lbana\documents\csprojects\w
hen2go\.venv\lib\site-packages (from ploomber-core>=0.2.7->jupysql) (6.7.6)
Requirement already satisfied: requests<3.0,>=2.7 in c:\users\lbana\documents\csproj
ects\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupys
ql) (2.32.5)
Requirement already satisfied: six>=1.5 in c:\users\lbana\documents\csprojects\when2
go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupysql) (1.17.
0)
Requirement already satisfied: python-dateutil>=2.2 in c:\users\lbana\documents\cspr
ojects\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jup
ysql) (2.9.0.post0)
Requirement already satisfied: backoff>=1.10.0 in c:\users\lbana\documents\csproject
s\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupysql)
(2.2.1)
Requirement already satisfied: distro>=1.5.0 in c:\users\lbana\documents\csprojects
\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupysql)
(1.9.0)
Requirement already satisfied: typing-extensions>=4.2.0 in c:\users\lbana\documents
\csprojects\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7
->jupysql) (4.15.0)
Requirement already satisfied: charset_normalizer<4,>=2 in c:\users\lbana\documents
\csprojects\when2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->
ploomber-core>=0.2.7->jupysql) (3.4.3)
Requirement already satisfied: idna<4,>=2.5 in c:\users\lbana\documents\csprojects\w
hen2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->ploomber-core
>=0.2.7->jupysql) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\lbana\documents\csproj
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r-core>=0.2.7->jupysql) (2.5.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\lbana\documents\csproj
ects\when2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->ploombe
r-core>=0.2.7->jupysql) (2025.8.3)
Requirement already satisfied: wcwidth in c:\users\lbana\documents\csprojects\when2g
o\.venv\lib\site-packages (from prettytable>=3.12.0->jupysql) (0.2.14)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\lbana\documents\csproject
s\when2go\.venv\lib\site-packages (from jinja2->jupysql) (3.0.2)
```

```
Requirement already satisfied: greenlet>=1 in c:\users\lbana\documents\csprojects\wh
en2go\.venv\lib\site-packages (from sqlalchemy->jupysql) (3.2.4)
Note: you may need to restart the kernel to use updated packages.
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env: PLOOMBER_VERSION_CHECK_DISABLED="false"
Requirement already satisfied: matplotlib in c:\users\lbana\documents\csprojects\whe
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Requirement already satisfied: seaborn in c:\users\lbana\documents\csprojects\when2g
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Requirement already satisfied: jupysql[plot] in c:\users\lbana\documents\csprojects
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Requirement already satisfied: sqlalchemy in c:\users\lbana\documents\csprojects\whe
n2go\.venv\lib\site-packages (from jupysql[plot]) (2.0.43)
Requirement already satisfied: sqlparse in c:\users\lbana\documents\csprojects\when2
go\.venv\lib\site-packages (from jupysql[plot]) (0.5.3)
Requirement already satisfied: ipython-genutils>=0.1.0 in c:\users\lbana\documents\c
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Requirement already satisfied: jinja2 in c:\users\lbana\documents\csprojects\when2go
\.venv\lib\site-packages (from jupysql[plot]) (3.1.6)
Requirement already satisfied: sqlglot>=11.3.7 in c:\users\lbana\documents\csproject
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Requirement already satisfied: jupysql-plugin>=0.4.2 in c:\users\lbana\documents\csp
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ts\when2go\.venv\lib\site-packages (from matplotlib) (1.3.3)
Requirement already satisfied: cycler>=0.10 in c:\users\lbana\documents\csprojects\w
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Requirement already satisfied: fonttools>=4.22.0 in c:\users\lbana\documents\csproje
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Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\lbana\documents\csproje
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Requirement already satisfied: numpy>=1.23 in c:\users\lbana\documents\csprojects\wh
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Requirement already satisfied: packaging>=20.0 in c:\users\lbana\documents\csproject
s\when2go\.venv\lib\site-packages (from matplotlib) (25.0)
Requirement already satisfied: pillow>=8 in c:\users\lbana\documents\csprojects\when
2go\.venv\lib\site-packages (from matplotlib) (11.3.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\users\lbana\documents\csprojec
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Requirement already satisfied: pandas>=1.2 in c:\users\lbana\documents\csprojects\wh
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Requirement already satisfied: tzdata>=2022.7 in c:\users\lbana\documents\csprojects
\when2go\.venv\lib\site-packages (from pandas>=1.2->seaborn) (2025.2)
Requirement already satisfied: pyyaml in c:\users\lbana\documents\csprojects\when2go
\.venv\lib\site-packages (from ploomber-core>=0.2.7->jupysql[plot]) (6.0.2)
Requirement already satisfied: posthog>=3.0 in c:\users\lbana\documents\csprojects\w
hen2go\.venv\lib\site-packages (from ploomber-core>=0.2.7->jupysql[plot]) (6.7.6)
Requirement already satisfied: requests<3.0,>=2.7 in c:\users\lbana\documents\csproj
```

```
ects\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupys
ql[plot]) (2.32.5)
Requirement already satisfied: six>=1.5 in c:\users\lbana\documents\csprojects\when2
go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupysql[plot])
(1.17.0)
Requirement already satisfied: backoff>=1.10.0 in c:\users\lbana\documents\csproject
s\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupysql
[plot]) (2.2.1)
Requirement already satisfied: distro>=1.5.0 in c:\users\lbana\documents\csprojects
\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7->jupysql[p
lot]) (1.9.0)
Requirement already satisfied: typing-extensions>=4.2.0 in c:\users\lbana\documents
\csprojects\when2go\.venv\lib\site-packages (from posthog>=3.0->ploomber-core>=0.2.7
->jupysql[plot]) (4.15.0)
Requirement already satisfied: charset_normalizer<4,>=2 in c:\users\lbana\documents
\csprojects\when2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->
ploomber-core>=0.2.7->jupysql[plot]) (3.4.3)
Requirement already satisfied: idna<4,>=2.5 in c:\users\lbana\documents\csprojects\w
hen2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->ploomber-core
>=0.2.7->jupysql[plot]) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\lbana\documents\csproj
ects\when2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->ploombe
r-core>=0.2.7->jupysql[plot]) (2.5.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\lbana\documents\csproj
ects\when2go\.venv\lib\site-packages (from requests<3.0,>=2.7->posthog>=3.0->ploombe
r-core>=0.2.7->jupysql[plot]) (2025.8.3)
Requirement already satisfied: wcwidth in c:\users\lbana\documents\csprojects\when2g
o\.venv\lib\site-packages (from prettytable>=3.12.0->jupysql[plot]) (0.2.14)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\lbana\documents\csproject
s\when2go\.venv\lib\site-packages (from jinja2->jupysql[plot]) (3.0.2)
Requirement already satisfied: greenlet>=1 in c:\users\lbana\documents\csprojects\wh
en2go\.venv\lib\site-packages (from sqlalchemy->jupysql[plot]) (3.2.4)
Note: you may need to restart the kernel to use updated packages.
The sql extension is already loaded. To reload it, use:
  %reload_ext sql
WARNING: jupysql 0.11.1 does not provide the extra 'plot'
```

In [28]:
```
%sql conn
```

In [29]:
```
%load_ext sql
# Ensure jupysql plot magic is available
# If not already installed earlier in the notebook, ensure jupysql was installed.
```

```
The sql extension is already loaded. To reload it, use:
  %reload_ext sql
```

In [30]:
```
%%sql
CREATE OR REPLACE VIEW yellow_2024 AS
SELECT *
FROM 'yellow_2024_clean.parquet';

CREATE OR REPLACE VIEW fhv_2024 AS
SELECT *
FROM 'fhvhv_2024_clean.parquet';
```

Running query in 'DuckDBPyConnection'

Out[30]: **Count**

In [31]:
```
%%sql --save per_bin --no-index
WITH scoped AS (
  SELECT
    CASE hvfhs_license_num WHEN 'HV0003' THEN 'Uber' WHEN 'HV0005' THEN 'Lyft' END
    trip_miles,
    trip_time,
    COALESCE(base_passenger_fare,0)+COALESCE(sales_tax,0)+COALESCE(bcf,0)+
    COALESCE(congestion_surcharge,0)+COALESCE(airport_fee,0)+COALESCE(tolls,0) AS t
  FROM fhv_2024
  WHERE hvfhs_license_num IN ('HV0003','HV0005')
    AND trip_miles >= 0.5 AND trip_miles < 30
    AND trip_time BETWEEN 60 AND 14400
),
binned AS (
  SELECT
    company,
    CAST(FLOOR(trip_miles / 3.0) AS INTEGER) AS miles_bin,
    total_ex_tip,
    trip_miles
  FROM scoped
),
stats AS (
  SELECT
    company, miles_bin,
    COUNT(*) AS trips,
    AVG(total_ex_tip/NULLIF(trip_miles,0)) AS avg_per_mile,
    quantile(total_ex_tip/NULLIF(trip_miles,0), 0.5) AS p50_per_mile
  FROM binned
  GROUP BY 1,2
),
joined AS (
  SELECT
    u.miles_bin,
    u.trips AS trips_uber,
    l.trips AS trips_lyft,
    u.avg_per_mile AS avg_per_mile_uber,
    l.avg_per_mile AS avg_per_mile_lyft,
    u.p50_per_mile AS p50_per_mile_uber,
    l.p50_per_mile AS p50_per_mile_lyft
  FROM stats u
  JOIN stats l USING (miles_bin)
  WHERE u.company = 'Uber' AND l.company = 'Lyft'
)
SELECT
  miles_bin,
  CONCAT(CAST(miles_bin*3 AS INT), '-', CAST((miles_bin+1)*3 AS INT), ' mi') AS bin
  trips_uber, trips_lyft,
  avg_per_mile_uber, avg_per_mile_lyft,
  (avg_per_mile_uber - avg_per_mile_lyft) AS diff_per_mile,
  100.0 * (avg_per_mile_uber - avg_per_mile_lyft) / NULLIF(avg_per_mile_lyft, 0) AS
  p50_per_mile_uber, p50_per_mile_lyft
FROM joined
```

```
WHERE miles_bin BETWEEN 0 AND 9
ORDER BY miles_bin;
```

Running query in 'DuckDBPyConnection'

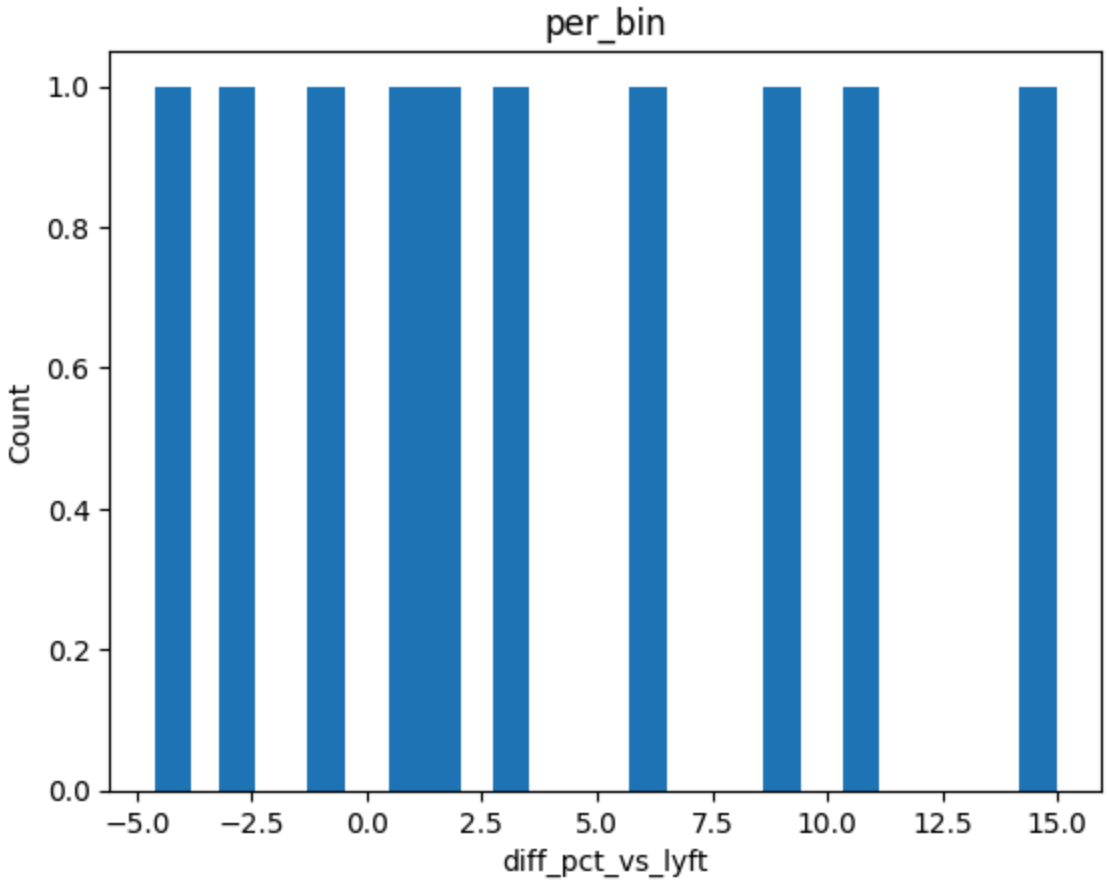
Out[31]:

	miles_bin	bin_label	trips_uber	trips_lyft	avg_per_mile_uber	avg_per_mile_lyft	
0	0	0-3 mi	7289922	2715380	11.020374070859075	10.1090004704684	0.911
1	1	3-6 mi	3294877	1212778	6.722938073010101	6.664341461221657	0.0585
2	2	6-9 mi	1491349	513278	5.230713877272654	5.460489852122013	-0.2297
3	3	9-12 mi	890044	304608	4.88842354776572	4.932328616991318	-0.0439
4	4	12-15 mi	433002	144238	4.38890448505322	4.516258743972218	-0.1273
5	5	15-18 mi	345023	107627	4.644536626857059	4.568909149966782	0.0756
6	6	18-21 mi	232460	70669	4.530622229100431	4.392747127679986	0.1378
7	7	21-24 mi	91340	27391	4.39379182673262	4.14102901752747	0.252
8	8	24-27 mi	55226	18617	4.293025739723407	3.8766577682271444	0.416
9	9	27-30 mi	42135	14601	4.363775204167202	3.808441898306672	0.555

In [32]:
```
%sqlplot bar --table per_bin --column diff_pct_vs_lyft --with per_bin --title "Uber
```

Removing NULLs, if there exists any from diff_pct_vs_lyft

Out[32]:
```
<Axes: title={'center': 'per_bin'}, xlabel='diff_pct_vs_lyft', ylabel='Count'>
```



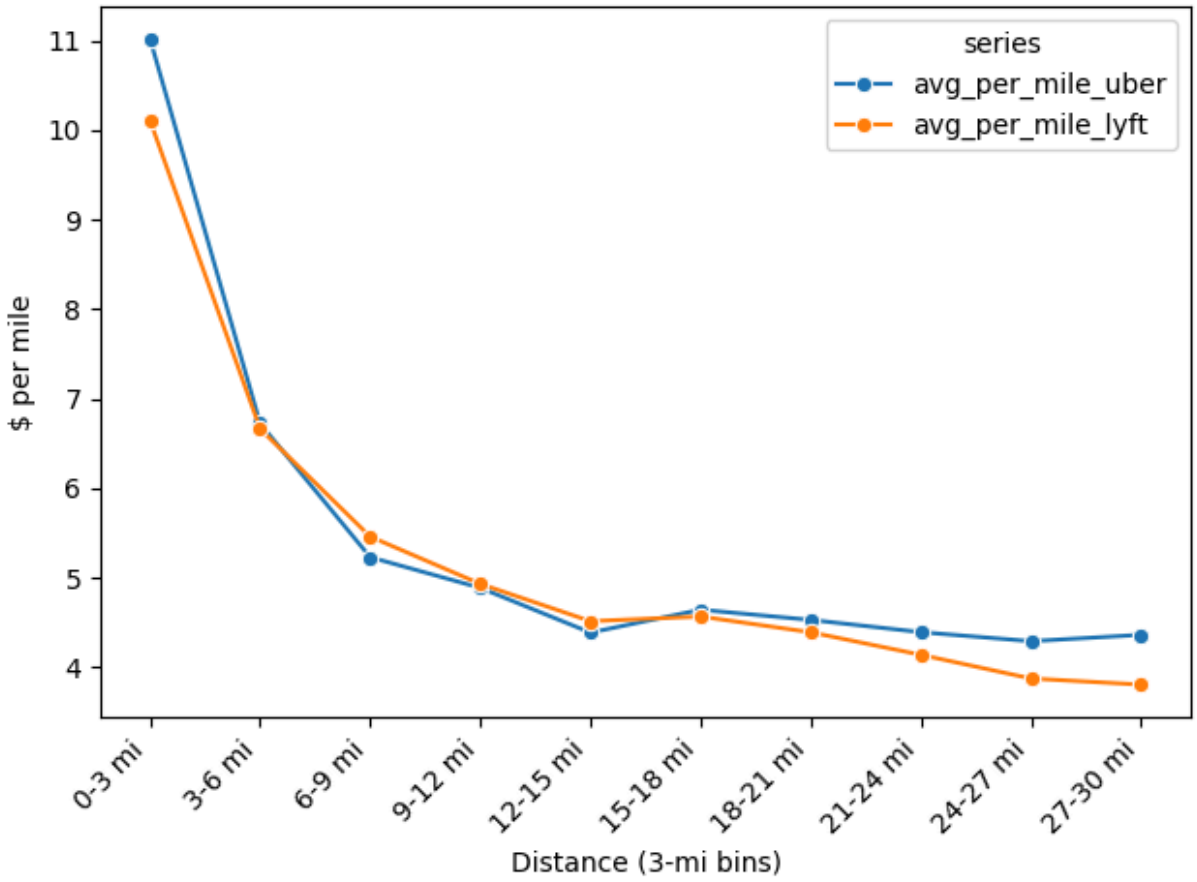
In [33]:
```
%matplotlib inline
import pandas as pd, seaborn as sns, matplotlib.pyplot as plt

res = %sql SELECT miles_bin, bin_label, avg_per_mile_uber, avg_per_mile_lyft FROM p
df = res.DataFrame()

# One combined line chart
long = df.melt(id_vars=['miles_bin','bin_label'],
               value_vars=['avg_per_mile_uber','avg_per_mile_lyft'],
               var_name='series', value_name='avg_per_mile')
sns.lineplot(data=long, x='miles_bin', y='avg_per_mile', hue='series', marker='o')
plt.xticks(df['miles_bin'], df['bin_label'], rotation=45, ha='right')
plt.xlabel('Distance (3-mi bins)'); plt.ylabel('$ per mile'); plt.tight_layout(); p
```

Generating CTE with stored snippets: 'per_bin'

Running query in 'DuckDBPyConnection'



In [34]:
```
%%sql
DESCRIBE SELECT * FROM 'fhvhv_2024_clean.parquet'
```

Running query in 'DuckDBPyConnection'

Out[34]:

column_name	column_type	null	key	default	extra
hvfhs_license_num	VARCHAR	YES	None	None	None
dispatching_base_num	VARCHAR	YES	None	None	None
originating_base_num	VARCHAR	YES	None	None	None
request_datetime	TIMESTAMP	YES	None	None	None
on_scene_datetime	TIMESTAMP	YES	None	None	None
pickup_datetime	TIMESTAMP	YES	None	None	None
dropoff_datetime	TIMESTAMP	YES	None	None	None
PULocationID	INTEGER	YES	None	None	None
DOLocationID	INTEGER	YES	None	None	None
trip_miles	DOUBLE	YES	None	None	None
trip_time	BIGINT	YES	None	None	None
base_passenger_fare	DOUBLE	YES	None	None	None
tolls	DOUBLE	YES	None	None	None
bcf	DOUBLE	YES	None	None	None
sales_tax	DOUBLE	YES	None	None	None
congestion_surcharge	DOUBLE	YES	None	None	None
airport_fee	DOUBLE	YES	None	None	None
tips	DOUBLE	YES	None	None	None
driver_pay	DOUBLE	YES	None	None	None
shared_request_flag	VARCHAR	YES	None	None	None
shared_match_flag	VARCHAR	YES	None	None	None
access_a_ride_flag	VARCHAR	YES	None	None	None
wav_request_flag	VARCHAR	YES	None	None	None
wav_match_flag	VARCHAR	YES	None	None	None

In [35]:
```
%%sql
SELECT * FROM 'fhvhv_2024_clean.parquet' LIMIT 5
```

Running query in 'DuckDBPyConnection'

Out[35]:

hvfhs_license_num	dispatching_base_num	originating_base_num	request_datetime	on_scen
HV0003	B03404	B03404	2024-01-01 00:21:47	
HV0003	B03404	B03404	2024-01-01 00:10:56	
HV0003	B03404	B03404	2024-01-01 00:20:04	
HV0003	B03404	B03404	2024-01-01 00:35:46	
HV0003	B03404	B03404	2024-01-01 00:48:19	

In [36]:
```
%%sql
SELECT
  CASE hvfhs_license_num
    WHEN 'HV0003' THEN 'Uber'
    WHEN 'HV0005' THEN 'Lyft'
    WHEN 'HV0004' THEN 'Via'
    WHEN 'HV0002' THEN 'Juno'
    ELSE hvfhs_license_num
  END AS company,
  COUNT(*) AS trips
FROM fhv_2024
GROUP BY 1 ORDER BY trips DESC;
```

Running query in 'DuckDBPyConnection'

Out[36]:

company	trips
Uber	14432755
Lyft	5231175

In [37]:
```
%%sql
WITH scoped AS (
  SELECT
    CASE hvfhs_license_num WHEN 'HV0003' THEN 'Uber' WHEN 'HV0005' THEN 'Lyft' END
    trip_miles,
    trip_time,
    COALESCE(base_passenger_fare,0) AS base_fare,
    COALESCE(sales_tax,0) AS sales_tax,
    COALESCE(bcf,0) AS bcf,
    COALESCE(congestion_surcharge,0) AS congestion,
    COALESCE(airport_fee,0) AS airport_fee,
    COALESCE(tolls,0) AS tolls,
    COALESCE(tips,0) AS tips,
    COALESCE(base_passenger_fare,0)+COALESCE(sales_tax,0)+COALESCE(bcf,0)+
    COALESCE(congestion_surcharge,0)+COALESCE(airport_fee,0)+COALESCE(tolls,0)
    COALESCE(base_passenger_fare,0)+COALESCE(sales_tax,0)+COALESCE(bcf,0)+
```

```
    COALESCE(congestion_surcharge,0)+COALESCE(airport_fee,0)+COALESCE(tolls,0)+tips
  FROM fhv_2024
  WHERE hvfhs_license_num IN ('HV0003','HV0005')
    AND trip_miles BETWEEN 0.5 AND 100
    AND trip_time BETWEEN 60 AND 14400
)
SELECT
  company,
  COUNT(*) AS trips,
  AVG(total_ex_tip) AS avg_total_ex_tip,
  quantile(total_ex_tip, 0.5) AS p50_total_ex_tip,
  quantile(total_ex_tip, 0.9) AS p90_total_ex_tip,
  AVG(total_with_tip) AS avg_total_with_tip,
  AVG(total_ex_tip/NULLIF(trip_miles,0)) AS avg_per_mile_ex_tip,
  quantile(total_ex_tip/NULLIF(trip_miles,0), 0.5) AS p50_per_mile_ex_tip,
  AVG(tips) AS avg_tip
FROM scoped
GROUP BY 1
ORDER BY 1;
```

Running query in 'DuckDBPyConnection'

Out[37]:

company	trips	avg_total_ex_tip	p50_total_ex_tip	p90_total_ex_tip	avg_tc
Lyft	5160561	27.966477501184748	20.959999999999997	54.660000000000004	29.1333
Uber	14257632	29.622154873208316	21.909999999999997	56.96	30.64979

In [38]:

```
%%sql
WITH scoped AS (
  SELECT
    CASE hvfhs_license_num WHEN 'HV0003' THEN 'Uber' WHEN 'HV0005' THEN 'Lyft' END
    trip_miles,
    trip_time,
    COALESCE(base_passenger_fare,0)+COALESCE(sales_tax,0)+COALESCE(bcf,0)+
    COALESCE(congestion_surcharge,0)+COALESCE(airport_fee,0)+COALESCE(tolls,0) AS t
  FROM fhv_2024
  WHERE hvfhs_license_num IN ('HV0003','HV0005')
    AND trip_miles BETWEEN 0.5 AND 100
    AND trip_time BETWEEN 60 AND 14400
)
SELECT
  AVG(total_ex_tip) FILTER (WHERE company='Uber')  AS avg_total_uber,
  AVG(total_ex_tip) FILTER (WHERE company='Lyft')  AS avg_total_lyft,
  AVG(total_ex_tip) FILTER (WHERE company='Uber')
    - AVG(total_ex_tip) FILTER (WHERE company='Lyft') AS avg_total_diff,
  AVG(total_ex_tip/NULLIF(trip_miles,0)) FILTER (WHERE company='Uber') AS per_mile_
  AVG(total_ex_tip/NULLIF(trip_miles,0)) FILTER (WHERE company='Lyft') AS per_mile_
  AVG(total_ex_tip/NULLIF(trip_miles,0)) FILTER (WHERE company='Uber')
    - AVG(total_ex_tip/NULLIF(trip_miles,0)) FILTER (WHERE company='Lyft') AS per_m
FROM scoped
```

Running query in 'DuckDBPyConnection'

Out[38]:

avg_total_uber	avg_total_lyft	avg_total_diff	per_mile_uber	per_m
29.622154873205165	27.966477501191992	1.655677372013173	8.44576983201331	8.070227684

In [39]:
```
%config SqlMagic.displaylimit = None
```

displaylimit: Value None will be treated as 0 (no limit)