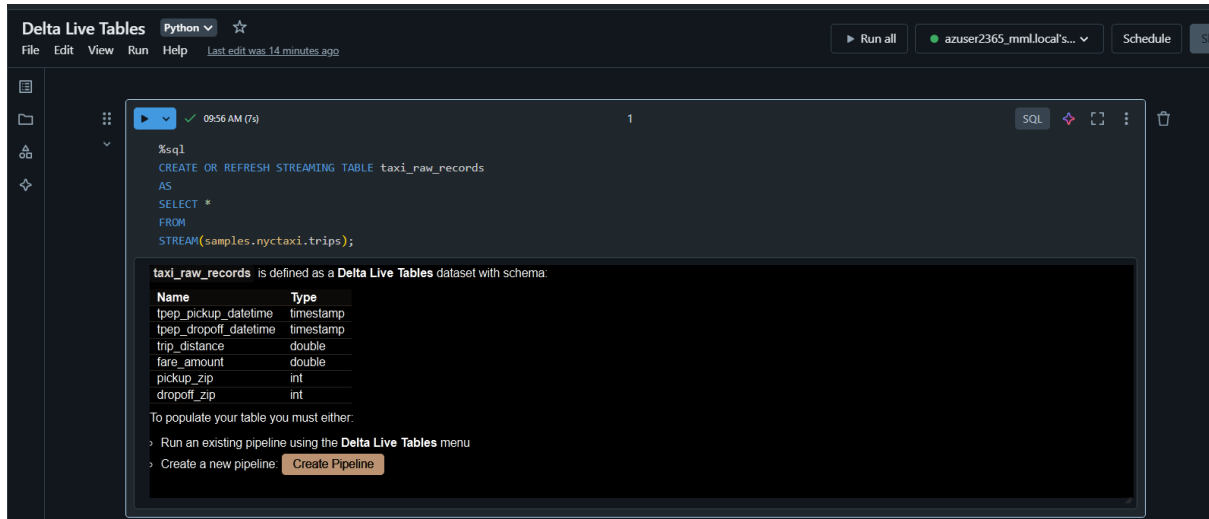


Daily Assignment 5 (Azure)

Name: **Harish E.R**



Delta Live Tables Python ☆

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Run all azuser2365_mmlocal's... Schedule

09:56 AM (7s) 1 SQL

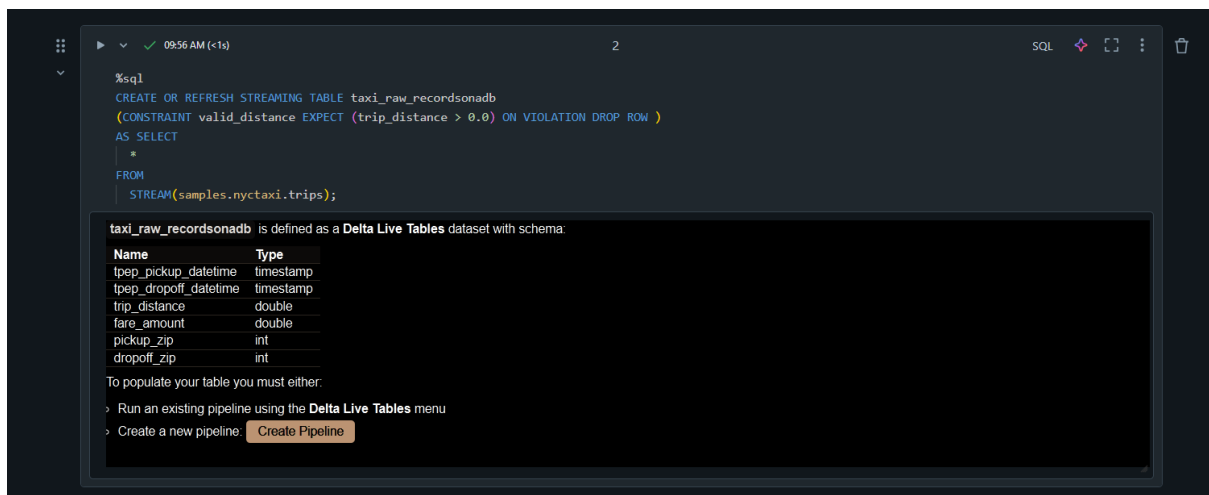
```
%sql
CREATE OR REFRESH STREAMING TABLE taxi_raw_records
AS
SELECT *
FROM
STREAM(samples.nyctaxi.trips);
```

taxi_raw_records is defined as a Delta Live Tables dataset with schema:

Name	Type
tpep_pickup_datetime	timestamp
tpep_dropoff_datetime	timestamp
trip_distance	double
fare_amount	double
pickup_zip	int
dropoff_zip	int

To populate your table you must either:

- Run an existing pipeline using the Delta Live Tables menu
- Create a new pipeline: [Create Pipeline](#)



09:56 AM (<1s) 2 SQL

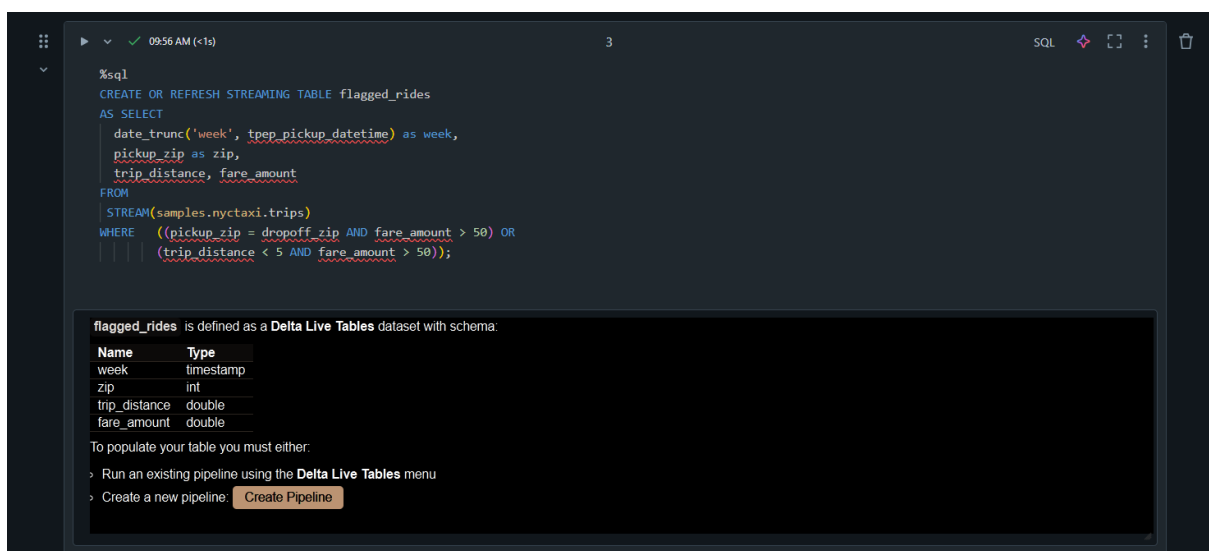
```
%sql
CREATE OR REFRESH STREAMING TABLE taxi_raw_recordsonadb
(CONSTRAINT valid_distance EXPECT (trip_distance > 0.0) ON VIOLATION DROP ROW )
AS SELECT
*
FROM
STREAM(samples.nyctaxi.trips);
```

taxi_raw_recordsonadb is defined as a Delta Live Tables dataset with schema:

Name	Type
tpep_pickup_datetime	timestamp
tpep_dropoff_datetime	timestamp
trip_distance	double
fare_amount	double
pickup_zip	int
dropoff_zip	int

To populate your table you must either:

- Run an existing pipeline using the Delta Live Tables menu
- Create a new pipeline: [Create Pipeline](#)



09:56 AM (<1s) 3 SQL

```
%sql
CREATE OR REFRESH STREAMING TABLE flagged_rides
AS SELECT
date_trunc('week', tpep_pickup_datetime) as week,
pickup_zip as zip,
trip_distance, fare_amount
FROM
STREAM(samples.nyctaxi.trips)
WHERE ((pickup_zip = dropoff_zip AND fare_amount > 50) OR
(trip_distance < 5 AND fare_amount > 50));
```

flagged_rides is defined as a Delta Live Tables dataset with schema:

Name	Type
week	timestamp
zip	int
trip_distance	double
fare_amount	double

To populate your table you must either:

- Run an existing pipeline using the Delta Live Tables menu
- Create a new pipeline: [Create Pipeline](#)

09:56 AM (<1s)

4

SQL

```
%sql
CREATE
OR REFRESH MATERIALIZED VIEW weekly_stats
AS SELECT
  date_trunc("week", tpep_pickup_datetime) as week,
  AVG(fare_amount) as avg_amount,
  AVG(trip_distance) as avg_distance
FROM
  live.taxi_raw_records
GROUP BY
  week
ORDER by week ASC;
```

weekly_stats is defined as a **Delta Live Tables** dataset with schema:

Name	Type
week	timestamp
avg_amount	double
avg_distance	double

To populate your table you must either:

- > Run an existing pipeline using the **Delta Live Tables** menu
- > Create a new pipeline: [Create Pipeline](#)

09:56 AM (<1s)

5

SQL

```
%sql
CREATE OR REPLACE MATERIALIZED VIEW top_m
AS SELECT
  weekly_stats.week,
  ROUND(avg_amount,2) as avg_amount,
  ROUND(avg_distance,3) as avg_distance,
  fare_amount,trip_distance, zip
FROM live.flagged_rides
LEFT JOIN live.weekly_stats ON flagged_rides.week = weekly_stats.week
ORDER BY fare_amount DESC;
```

top_m is defined as a **Delta Live Tables** dataset with schema:

Name	Type
week	timestamp
avg_amount	double
avg_distance	double
fare_amount	double
trip_distance	double
zip	int

To populate your table you must either:

- > Run an existing pipeline using the **Delta Live Tables** menu
- > Create a new pipeline: [Create Pipeline](#)