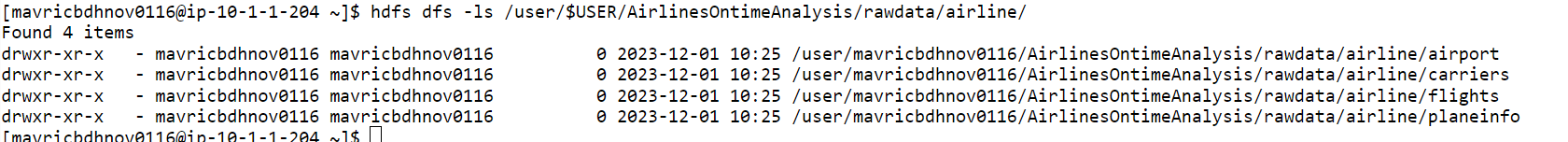
**\*\*\*\*\*\*\*\*FLIGHT – Problem 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

A screenshot of a computer

Description automatically generated



A screenshot of a computer program

Description automatically generated

A close-up of a computer code

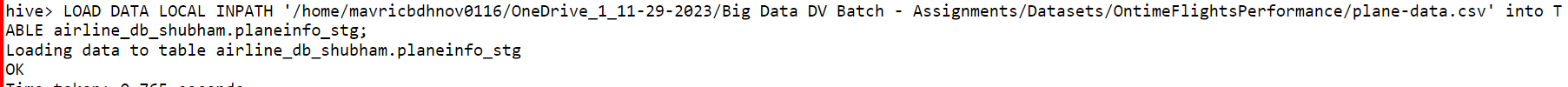
Description automatically generated

A white background with black text

Description automatically generated

A screenshot of a computer program

Description automatically generated



A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

A white background with black and white lines

Description automatically generated

SELECT Month, AVG(ArrDelay) AS AvgArrivalDelay, AVG(DepDelay) AS AvgDepartureDelay FROM airline\_db\_shubham.flights\_stg WHERE Year = 2004 GROUP BY Month;

A white background with black and blue text

Description automatically generated

CREATE EXTERNAL TABLE airline\_db\_shubham.flights\_pq (  
    Year INT,  
    Month INT,  
    DayofMonth INT,  
    DayOfWeek INT,  
    DepTime INT,  
    CRSDepTime INT,  
    ArrTime INT,  
    CRSArrTime INT,  
    UniqueCarrier VARCHAR(255),  
    FlightNum VARCHAR(255),  
    TailNum VARCHAR(255),  
    ActualElapsedTime INT,  
    CRSElapsedTime INT,  
    AirTime INT,  
    ArrDelay INT,  
    DepDelay INT,  
    Origin VARCHAR(255),  
    Dest VARCHAR(255),  
    Distance INT,  
    TaxiIn INT,  
    TaxiOut INT,  
    Cancelled INT,  
    CancellationCode VARCHAR(1),  
    Diverted INT,  
    CarrierDelay INT,  
    WeatherDelay INT,  
    NASDelay INT,  
    SecurityDelay INT,  
    LateAircraftDelay INT  
)

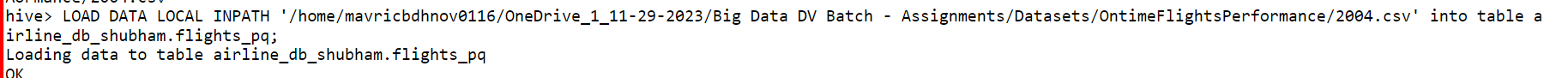
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','  
LINES TERMINATED BY '\n'  
STORED AS PARQUET  
LOCATION '/user/mavricbdhnov0115/AirlinesOntimeAnalysis/rawdata/airline/pq\_flights'  
tblproperties(  
"skip.header.line.count"="1"  
);

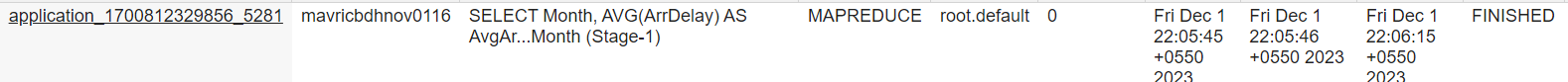
A screenshot of a computer program

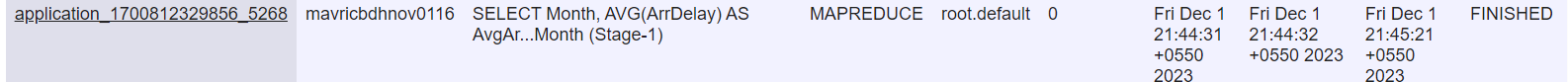
Description automatically generated

A screenshot of a computer program

Description automatically generated







|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table type** | **Database name.Table name** | **launch time** | **Finish time** | **time elapsed** |
| Normal table | airline\_db\_shubham.flights\_stg | Fri Dec 1 21:44:32 +0550 2023 | Fri Dec 1 21:45:21 +0550 2023 | 49sec |
| Parquet Table | airline\_db\_shubham.flights\_pq | Fri Dec 1 22:05:46 +0550 2023 | Fri Dec 1 22:06:15 +0550 2023 | 29sec |