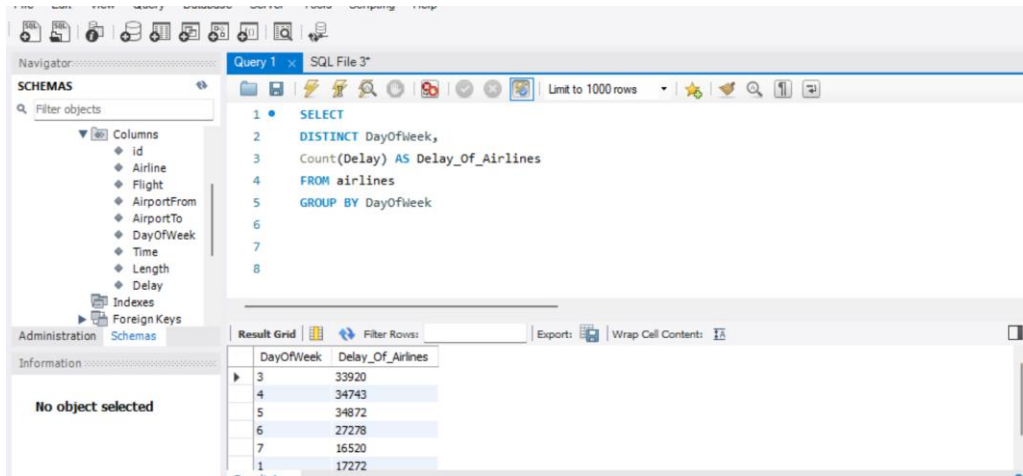


1. Determine the number of flights that are delayed on various days of the week.



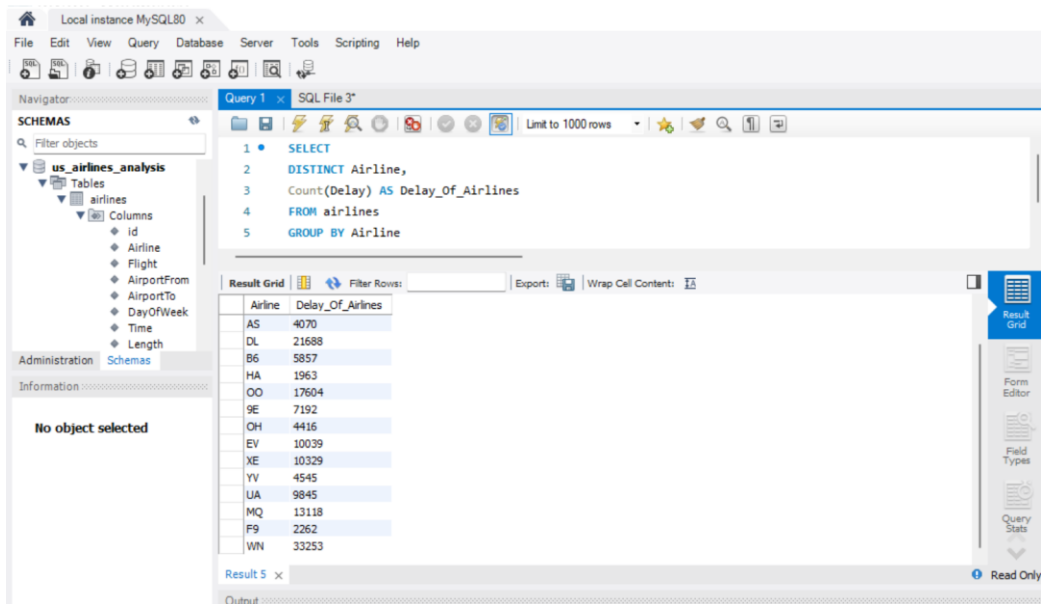
The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'SCHEMAS' tree with 'Columns' expanded, showing fields like id, Airline, Flight, AirportFrom, AirportTo, DayOfWeek, Time, Length, and Delay. The central pane shows a query window with the following SQL code:

```
1 SELECT
2 DISTINCT DayOfWeek,
3 Count(Delay) AS Delay_Of_Airlines
4 FROM airlines
5 GROUP BY DayOfWeek
```

The right pane shows the 'Result Grid' with the following data:

DayOfWeek	Delay_Of_Airlines
3	33920
4	34743
5	34872
6	27278
7	16520
1	17272

2. Determine the number of delayed flights for various airlines



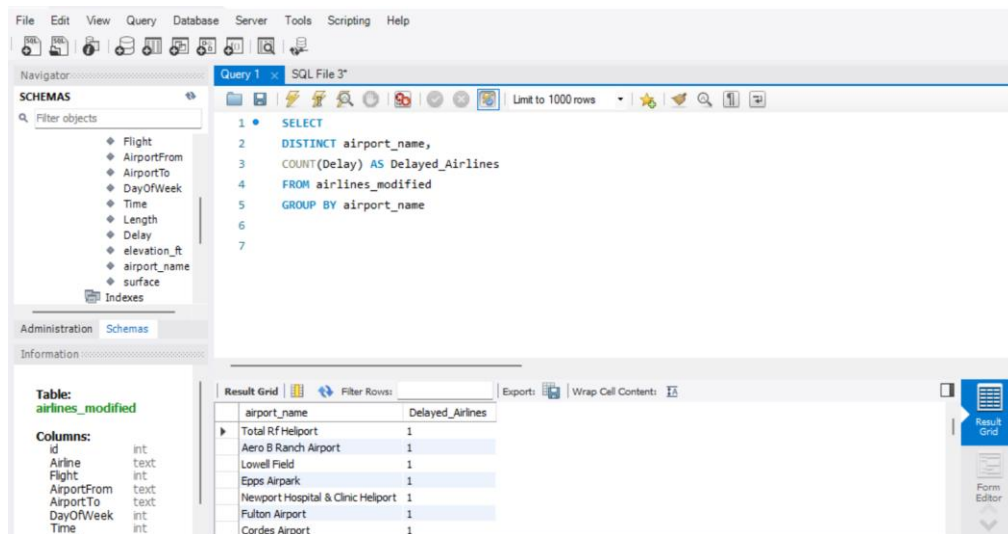
The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'SCHEMAS' tree with 'us_airlines_analysis' expanded, showing 'Tables' and 'airlines' with columns id, Airline, Flight, AirportFrom, AirportTo, DayOfWeek, Time, and Length. The central pane shows a query window with the following SQL code:

```
1 SELECT
2 DISTINCT Airline,
3 Count(Delay) AS Delay_Of_Airlines
4 FROM airlines
5 GROUP BY Airline
```

The right pane shows the 'Result Grid' with the following data:

Airline	Delay_Of_Airlines
AS	4070
DL	21688
B6	5857
HA	1963
OO	17604
9E	7192
OH	4416
EV	10039
XE	10329
YV	4545
UA	9845
MQ	13118
F9	2262
WN	33253

3. Determine how many delayed flights land at airports with at least 10 runways



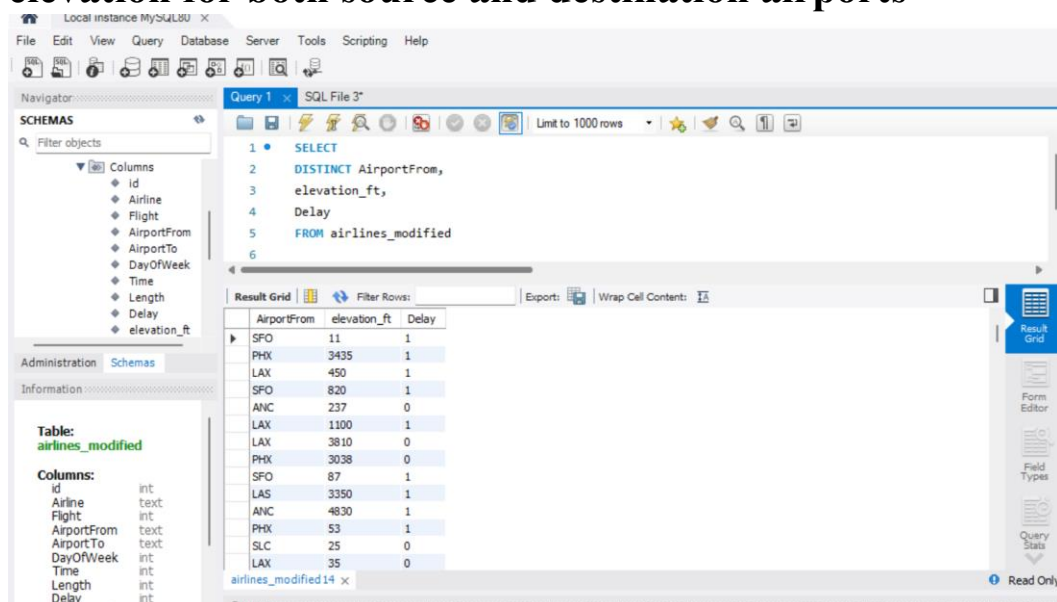
The screenshot shows the SQL Server Enterprise Manager interface. The 'Schemas' pane on the left lists various tables and indexes. The 'Query 1' window displays the following SQL query:

```
1 SELECT
2   DISTINCT airport_name,
3   COUNT(Delay) AS Delayed_Airlines
4 FROM airlines_modified
5 GROUP BY airport_name
```

The 'Result Grid' shows the results of the query, listing airport names and the count of delayed flights (Delayed_Airlines).

airport_name	Delayed_Airlines
Total RF Heliport	1
Aero B Ranch Airport	1
Lowell Field	1
Epps Airpark	1
Newport Hospital & Clinic Heliport	1
Fulton Airport	1
Cordes Airport	1

4. Compare the number of delayed flights at airports higher than average elevation and those that are lower than average elevation for both source and destination airports



The screenshot shows the SQL Server Enterprise Manager interface. The 'Schemas' pane on the left lists various tables and indexes. The 'Query 1' window displays the following SQL query:

```
1 SELECT
2   DISTINCT AirportFrom,
3   elevation_ft,
4   Delay
5 FROM airlines_modified
```

The 'Result Grid' shows the results of the query, listing airport names, elevation in feet, and the number of delayed flights (Delay).

AirportFrom	elevation_ft	Delay
SFO	11	1
PHX	3435	1
LAX	450	1
SFO	820	1
ANC	237	0
LAX	1100	1
LAX	3810	0
PHX	3038	0
SFO	87	1
LAS	3350	1
ANC	4830	1
PHX	53	1
SLC	25	0
LAX	35	0

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

- Columns
 - id
 - Airline
 - Flight
 - AirportFrom
 - AirportTo
 - DayOfWeek
 - Time
 - Length
 - Delay
 - elevation_ft

Administration Schemas

Information

Table:
airlines_modified

Columns:

id	int
Airline	text
Flight	int
AirportFrom	text
AirportTo	text
DayOfWeek	int
Time	int
Length	int
Delay	int

Query 1 x SQL File 3*

```
1 • SELECT
2 DISTINCT AirportTo,
3 elevation_ft,
4 Delay
5 FROM airlines_modified
6
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 15

AirportTo	elevation_ft	Delay
IAH	11	1
CLT	3435	1
DFW	450	1
DFW	820	1
SEA	237	0
IAH	1100	1
MSP	3810	0
DTW	3038	0
MSP	87	1
ORD	3350	1
SEA	4830	1
ATL	53	1
ATL	25	0
DFW	35	0

airlines_modified 15 x

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