

Les consultes són les següents:

- 1-Quantitat de registres de la taula de vols: 1083

```
SELECT COUNT(*) FROM USAirlineFlights.Flights;
```

The screenshot shows a database query editor with a query window and a result grid. The query window contains two queries: a SELECT * FROM USAirlineFlights.Flights; and a SELECT COUNT(*) FROM USAirlineFlights.Flights;. The result grid shows the result of the second query, which is a single row with the count 1083.

#	COUNT(*)
1	1083

- 2-Retard promig de sortida i arribada segons l'aeroport origen.

```
SELECT Origin, AVG(ArrDelay), AVG(DepDelay) FROM USAirlineFlights.Flights group by Origin;
```

- 3-Retard promig d'arribada dels vols, per mesos i segons l'aeroport origen. A més, volen que els resultat es mostrin de la següent forma: Group by pag 1816 manual
LAX, 2000, 01, retard
LAX, 2000, 02, retard
...
LAX, 2000, 12, retard
LAX, 2001, 01, retard
...
ONT, 2000, 01, retard
ONT, 2000, 02, retard
etc.

SELECT Origin, colYear, colMonth, AVG(ArrDelay) FROM USAirlineFlights.Flights group by Origin asc, colYear asc, colMonth asc;

The screenshot shows a database query tool interface. The query editor at the top contains the following SQL query:

```
1 • SELECT Origin, colYear, colMonth, AVG(ArrDelay)
2 FROM USAirlineFlights.Flights
3 group by Origin, colYear, colMonth desc;
```

Below the query editor, the "Result Grid" displays the results of the query. The grid has the following columns: #, Origin, colYear, colMonth, and AVG(ArrDelay). The results are as follows:

#	Origin	colYear	colMonth	AVG(ArrDelay)
1	AMA	2000	12	7.8800
2	AUS	2000	12	7.7542
3	BDL	2000	12	6.9450
4	BHM	2000	12	14.7317
5	BNA	2000	12	11.4595
6	BOS	2000	12	12.7692

At the bottom of the interface, the "Action Output" section shows the execution log:

	Time	Action	Message	Duration / Fetc
✓	09:37:13	SELECT Carriers.Description, Cancelled FROM USAirlineFlights....	2 row(s) returned	0.0016 sec / 0
✓	09:44:23	SELECT Origin, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned	0.0030 sec / 0

- 4- Retard promig d'arribada dels vols, per mesos i segons l'aeroport origen (mateixa consulta que abans i amb el mateix ordre). Però a més, ara volen que en comptes del codi de l'aeroport es mostri el nom de la ciutat.

Los Angeles, 2000, 01, retard

Los Angeles, 2000, 02, retard

```
SELECT City, colYear, colMonth, AVG(ArrDelay) FROM USAirlineFlights.USAirports INNER JOIN USAirlineFlights.Flights ON IATA = Origin Group by Origin asc, colYear asc, colMonth asc;
```

The screenshot shows a database query editor with a SQL query and its results. The query is:

```
1 • SELECT City, colYear, colMonth, AVG(ArrDelay)
2 FROM USAirlineFlights.USAirports
3 INNER JOIN USAirlineFlights.Flights ON IATA = Origin
4 Group by Origin asc, colYear asc, colMonth asc;
```

The results are displayed in a table with the following columns: #, City, colYear, colMonth, AVG(ArrDelay). The data is as follows:

#	City	colYear	colMonth	AVG(ArrDelay)
1	Amarillo	2000	12	7.8800
2	Austin	2000	12	7.7542
3	Windsor Locks	2000	12	6.9450
4	Birmingham	2000	12	14.7317
5	Nashville	2000	12	11.4595
6	Boston	2000	12	12.7692

The Action Output table shows the following actions:

	Time	Action	Message	Duration / Fetch
✓	09:37:13	SELECT Carriers.Description, Cancelled FROM USAirlineFlights...	2 row(s) returned	0.0016 sec / 0
✓	09:44:23	SELECT Origin, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned	0.0030 sec / 0
✓	09:47:30	SELECT City, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned	0.0039 sec / 0

- 5-Les companyies amb més vols cancelats. A més, han d'estar ordenades de forma que les companyies amb més cancelacions apareguin les primeres.

```
SELECT Carriers.Description, Cancelled = '1' FROM USAirlineFlights.Carriers Inner join USAirlineFlights.Flights ON CarrierCode = UniqueCarrier Group by CarrierCode asc, Cancelled asc order by Cancelled desc;
```

The screenshot shows a database query editor with a SQL query and its results. The query is:

```
1 • SELECT Carriers.Description, Cancelled
2 FROM USAirlineFlights.Carriers
3 Inner join USAirlineFlights.Flights
4 ON CarrierCode = UniqueCarrier
5 where cancelled = '1' order by Cancelled desc;
```

The results are displayed in a table with the following columns: #, Description, Cancelled. The data is as follows:

#	Description	Cancelled
1	American Airlines Inc.	1
2	American Airlines Inc.	1

The Action Output table shows the following actions:

	Time	Action	Message	Duration / Fetch
✓	09:37:13	SELECT Carriers.Description, Cancelled FROM USAirlineFlights...	2 row(s) returned	0.0016 sec / 0
✓	09:44:23	SELECT Origin, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned	0.0030 sec / 0
✓	09:47:30	SELECT City, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned	0.0039 sec / 0
✓	09:50:13	SELECT Carriers.Description, Cancelled FROM USAirlineFlights...	2 row(s) returned	0.0033 sec / 0
✓	09:54:31	SELECT Carriers.Description, Cancelled FROM USAirlineFlights...	2 row(s) returned	0.0015 sec / 0

- 6-Companyies amb el seu promig només d'aquelles les quals els seus vols arriben al seu destí amb un retràs major de 10 minuts.

```
SELECT Carriers.Description, AVG(ArrDelay)
FROM USAirlineFlights.Carriers
Inner join USAirlineFlights.Flights
ON CarrierCode = UniqueCarrier
Group by UniqueCarrier;
```

The screenshot shows a database query interface with multiple tabs at the top. The active tab displays a SQL query: `SELECT Carriers.Description, AVG(ArrDelay) FROM USAirlineFlights.Carriers Inner join USAirlineFlights.Flights ON CarrierCode = UniqueCarrier Group by UniqueCarrier;`. Below the query, the 'Result Grid' shows two rows of data:

#	Description	AVG(ArrDelay)
1	American Airlines Inc.	8.0146
2	Delta Air Lines Inc.	17.0833

Below the result grid, the 'Action Output' section shows a log of executed queries and their results:

	Time	Action	Message
✓	09:37:13	SELECT Carriers.Description, Cancelled FROM USAirlineFlights....	2 row(s) returned
✓	09:44:23	SELECT Origin, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned
✓	09:47:30	SELECT City, colYear, colMonth, AVG(ArrDelay) FROM USAirli...	6 row(s) returned
✓	09:50:13	SELECT Carriers.Description, AVG(ArrDelay) FROM USAirlineFli...	2 row(s) returned

- 7-L'identificador dels 10 avions que més kilòmetres han recorregut fent vols comercials:

```
SELECT FlightNum, sum(distance) FROM USAirlineFlights.Flights Group by FlightNum
order by sum(distance) desc limit 10;
```

The screenshot shows a database query interface with multiple tabs at the top. The active tab displays a SQL query: `SELECT FlightNum, sum(distance) FROM USAirlineFlights.Flights Group by FlightNum order by sum(distance) desc limit 10;`. Below the query, the 'Result Grid' shows the top 10 flights by total distance:

#	FlightNum	sum(distance)
1	491	45298
2	1713	41188
3	1991	39717
4	681	38246
5	631	24992
6	847	22065
7	705	18744
8	463	18299
9	789	18299
10	1767	17789

Below the result grid, the 'Action Output' section shows a log of executed queries and their results:

	Time	Action	Message	Duration / Fel
✓	09:54:31	SELECT Carriers.Description, Cancelled FROM USAirlineFlights....	2 row(s) returned	0.0015 sec /
✓	09:56:10	SELECT FlightNum, sum(distance) FROM USAirlineFlights.Fligh...	10 row(s) returned	0.049 sec / 0