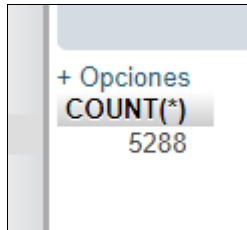


/\* Queries to US airline Flights \*/

/\*1. quantitat de registres de la taula de vols\*/

```
SELECT  
COUNT(*) FROM  
flights;
```



A screenshot of a database query result. It shows a single row with the text '+ Opciones' in blue, 'COUNT(\*)' in bold black, and the value '5288' below it.

+ Opciones
COUNT(*)
5288

/\*2. Retard promigde de sortide i arribade segons l' aeroport d' origen \*/

```
SELECT Origin, AVG(ArrDelay) AS "avg_ArrDelayTime", AVG(DepDelay) as "avg_DepDelayTime"  
FROM flights  
Group BY Origin
```

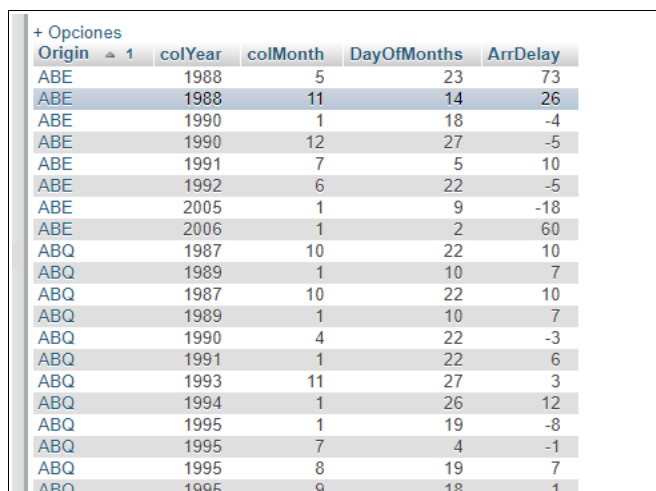


A screenshot of a database query result. It shows a table with 3 columns: 'Origin', 'avg\_ArrDelayTime', and 'avg\_DepDelayTime'. The table contains 20 rows of data for different airports.

Origin	avg_ArrDelayTime	avg_DepDelayTime
ABE	17.1250	15.7500
ABQ	4.0500	6.5250
ABY	4.5000	19.0000
AGS	24.0000	19.2000
ALB	-2.4167	2.2500
AMA	1.1667	0.0000
ANC	1.6000	3.2667
ASE	7.0000	10.0000
ATL	9.4725	9.6154
ATW	1.0000	1.2500
AUS	1.0000	1.1250
AVL	-7.6667	-3.3333
AZO	14.0000	19.5000
BDL	-4.2069	2.6552
BET	0.5000	1.5000

/\*3. Retard promig d'arribada dels vols, per mesos i segons l'aeroport origen.

```
SELECT Origin, colYear, colMonth, DayOfMonths, ArrDelay  
FROM flights  
ORDER BY Origin ASC
```



A screenshot of a database query result. It shows a table with 5 columns: 'Origin', 'colYear', 'colMonth', 'DayOfMonths', and 'ArrDelay'. The table contains 30 rows of data, grouped by origin and ordered by year and month.

Origin	colYear	colMonth	DayOfMonths	ArrDelay
ABE	1988	5	23	73
ABE	1988	11	14	26
ABE	1990	1	18	-4
ABE	1990	12	27	-5
ABE	1991	7	5	10
ABE	1992	6	22	-5
ABE	2005	1	9	-18
ABE	2006	1	2	60
ABQ	1987	10	22	10
ABQ	1989	1	10	7
ABQ	1987	10	22	10
ABQ	1989	1	10	7
ABQ	1990	4	22	-3
ABQ	1991	1	22	6
ABQ	1993	11	27	3
ABQ	1994	1	26	12
ABQ	1995	1	19	-8
ABQ	1995	7	4	-1
ABQ	1995	8	19	7
ABQ	1995	9	18	1

/\*4. Retard promig d'arribada dels vols, per mesos i segons l'aeroport origen \*/

```
SELECT b.City, a.colYear, a.colMonth, a.ArrDelay
FROM flights AS a
LEFT JOIN usairports AS b
ON a.Origin = b.IATA
ORDER BY b.City, a.colYear, a.colMonth
LIMIT 10
```

+ Opciones			
City ▲ 1	colYear	colMonth	ArrDelay
Albany	1988	3	-6
Albany	1988	3	-6
Albany	1989	3	0
Albany	1989	3	0
Albany	1992	12	-18
Albany	1993	10	0
Albany	1994	10	-11
Albany	2001	9	-5
Albany	2003	3	-4
Albany	2004	10	1

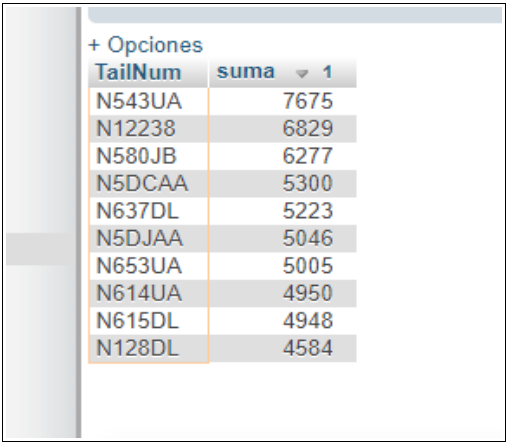
5. Les companyies amb més vols cancelats. A més, han d'estar ordenades de forma que les companyies amb més cancel·lacions apareguin les primeres.

```
SELECT b.CarrierCode, a.colYear, a.colMonth, a.ArrDelay, SUM(a.Cancelled) AS suma
FROM flights AS a
LEFT JOIN carriers AS b
ON a.UniqueCarrier = b.CarrierCode
GROUP BY b.CarrierCode, a.colYear
HAVING suma > 0
ORDER BY a.CancellationCode ASC, suma DESC
```

+ Opciones				
CarrierCode	colYear	colMonth	ArrDelay	suma ▼ 2
DL	1988	1	23	6
US	1987	12	6	2
UA	1988	4	-1	2
UA	1989	2	-17	2
PI	1988	7	-2	2
TW	1987	11	10	2
AA	1989	5	13	2
CO	1988	2	15	2
AS	1988	9	-10	2
AS	1989	8	0	1
US	1990	8	-4	1
UA	1990	2	33	1
DL	1990	5	5	1

6. L'identificador dels 10 avions que més distància han recorregut fent vols.

```
SELECT TailNum, SUM(Distance) as suma
FROM flights
WHERE TailNum NOT LIKE 'NA'
GROUP BY TailNum
ORDER BY suma DESC
LIMIT 10
```

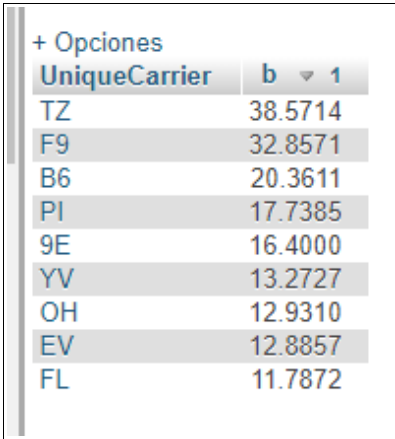


The screenshot shows a table with two columns: 'TailNum' and 'suma'. The table lists the top 10 aircraft based on the total distance they have flown. The aircraft are sorted in descending order of distance.

TailNum	suma
N543UA	7675
N12238	6829
N580JB	6277
N5DCAA	5300
N637DL	5223
N5DJAA	5046
N653UA	5005
N614UA	4950
N615DL	4948
N128DL	4584

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

```
SELECT UniqueCarrier, AVG(ArrDelay) AS b
FROM `flights`
GROUP BY UniqueCarrier
having b > 10
ORDER BY b DESC
```



The screenshot shows a table with two columns: 'UniqueCarrier' and 'b'. The table lists the average arrival delay for different airlines, sorted in descending order of the average delay.

UniqueCarrier	b
TZ	38.5714
F9	32.8571
B6	20.3611
PI	17.7385
9E	16.4000
YV	13.2727
OH	12.9310
EV	12.8857
FL	11.7872