1

The furthest airport is Honolulu Intl (HNL) at 4,983 miles

```
SELECT dest, distance FROM flights
GROUP BY dest ORDER BY distance DESC LIMIT 1;
```

2

Planes have 1, 2, 3, or 4 engines.

```
SELECT engines FROM planes
GROUP BY engines ORDER BY engines;
```

The 1-engine aircraft with the most seats is the DEHAVILLAND OTTER DHC-3 with 16 seats.

```
SELECT manufacturer, model, seats FROM planes
WHERE engines = 1 GROUP BY manufacturer, model
ORDER BY seats DESC, manufacturer, model;
```

The 2-engine aircraft with the most seats are the BOEING 777-200, 777-222, 777-224, and 777-232, each with 400 seats.

```
SELECT manufacturer, model, seats FROM planes
WHERE engines = 2 GROUP BY manufacturer, model
ORDER BY seats DESC, manufacturer, model;
```

The 3-engine aircraft with the most seats is the AIRBUS A330-223 with 379 seats.

```
SELECT manufacturer, model, seats FROM planes
WHERE engines = 3 GROUP BY manufacturer, model
ORDER BY seats DESC, manufacturer, model;
```

The 4-engine aircraft with the most seats is the BOEING 747-451 with 450 seats.

```
SELECT manufacturer, model, seats FROM planes
WHERE engines = 4 GROUP BY manufacturer, model
ORDER BY seats DESC, manufacturer, model;
```

3

There were 336,776 total flights.

4

carrier	COUNT(*)
9E	18460
AA	32729
AS	714
B6	54635
DL	48110
EV	54173
F9	685
FL	3260
HA	342
MQ	26397
OO	32
UA	58665
US	20536
VX	5162
WN	12275
YV	601

```
SELECT carrier, COUNT(*) FROM flights
GROUP BY carrier;
```

5

carrier	COUNT(*)
UA	58665
B6	54635
EV	54173
DL	48110
AA	32729
MQ	26397
US	20536
9E	18460
WN	12275
VX	5162
FL	3260
AS	714
F9	685
YV	601
HA	342
OO	32

```
SELECT carrier, COUNT(*) FROM flights
GROUP BY carrier
ORDER BY COUNT(*) DESC;
```

6

carrier	COUNT(*)
UA	58665
B6	54635
EV	54173
DL	48110
AA	32729

```
SELECT carrier, COUNT(*) FROM flights
GROUP BY carrier
ORDER BY COUNT(*) DESC LIMIT 5;
```

7

carrier	COUNT(*)
EV	47925
B6	24613
MQ	24106
DL	20014
US	18265

```
SELECT carrier, COUNT(*) FROM flights
WHERE distance < 1000
GROUP BY carrier
ORDER BY COUNT(*) DESC LIMIT 5;
```

8

Which airline, flying out of which airport, has the lowest delay on arrival times into LAX?

The shortest expected delay into LAX comes from flying with Delta Airlines out of JFK airport, with an expected arrival delay of -3.8 minutes.

carrier	origin	ExpectedDelay
DL	JFK	-3.8452

```
SELECT carrier, origin, AVG(arr_delay) AS ExpectedDelay FROM flights
WHERE arr_delay IS NOT NULL AND dest = 'LAX'
GROUP BY carrier, origin
ORDER BY ExpectedDelay LIMIT 1;
```