

```
SELECT *
FROM 'billionaires.csv';
```

	rank int64 1 - 497	finalWorth int64 5300 - 211000	category object Finance & In... 16.2% Technology 13.1% 16 others 70.7%	personName object Bernard Arn... 0.2% Elon Musk 0.2% 473 others 99.6%	age int64 30 - 96	country object United States 40% China 15.4% 37 others 44.6%	city object New York 5.1% London 3.6% 219 others 91.4%	s
0	1	211000	Fashion & Retail	Bernard Arnault &...	74	France	Paris	L
1	2	180000	Automotive	Elon Musk	51	United States	Austin	T
2	3	114000	Technology	Jeff Bezos	59	United States	Medina	A
3	4	107000	Technology	Larry Ellison	78	United States	Lanai	C
4	5	106000	Finance & Invest...	Warren Buffett	92	United States	Omaha	B
5	6	104000	Technology	Bill Gates	67	United States	Medina	M
6	7	94500	Media & Entertain...	Michael Bloomberg	81	United States	New York	E
7	8	93000	Telecom	Carlos Slim Helu ...	83	Mexico	Mexico City	T
8	9	83400	Diversified	Mukesh Ambani	65	India	Mumbai	D
9	10	80700	Technology	Steve Ballmer	67	United States	Hunts Point	N

475 rows, showing 10 per page

<< < Page 1 of 48 > >>

```
-- not select everything in csv file
SELECT personname, finalWorth
FROM 'billionaires.csv';
```

	personName object Bernard Arn... 0.2% Elon Musk 0.2% 473 others 99.6%	finalWorth int64 5300 - 211000	
0	Bernard Arnault &...	211000	
1	Elon Musk	180000	
2	Jeff Bezos	114000	
3	Larry Ellison	107000	
4	Warren Buffett	106000	
5	Bill Gates	104000	
6	Michael Bloomberg	94500	
7	Carlos Slim Helu ...	93000	
8	Mukesh Ambani	83400	
9	Steve Ballmer	80700	

475 rows, showing 10 per page

<< < Page 1 of 48 > >>

```
-- select the countries but appearing only once
SELECT DISTINCT country
FROM 'billionaires.csv';
```

	country object	
	France 2.6%	
	United States 2.6%	
	37 others 94.9%	
0	France	
1	United States	
2	Mexico	
3	India	
4	Spain	
5	China	
6	Canada	
7	Germany	
8	Switzerland	
9	Belgium	

39 rows, showing 10 per page << < Page 1 of 4 > > ↓

```
-- aggregate only distinct countries
SELECT COUNT(DISTINCT country), COUNT(DISTINCT personname)
FROM 'billionaires.csv';
```

	count(DISTINCT c...	count(DISTINCT p...	
0	39	475	

1 row, showing 10 per page << < Page 1 of 1 > > ↓

```
-- average net worth
SELECT AVG(finalWorth)
FROM 'billionaires.csv';
```

	avg(finalWorth) flo...	
0	14821.89474	

1 row, showing 10 per page << < Page 1 of 1 > > ↓

```
-- Filtering with WHERE Clause || One condition
SELECT * FROM 'billionaires.csv'
WHERE country = 'France'; -- case sensitive
```

	rank int64 1 - 405	finalWorth int64 6300 - 211000	category object	personName object	age int64 42 - 86	country object	city object	
			Fashion & R... 18.8% Food & Bev... 18.8% 6 others 62.5%	Bernard Arn... 6.3% Francoise Be... 6.3% 14 others 87.5%		France 100%	Paris 56.3% Laval 18.8% 2 others 25%	
0	1	211000	Fashion & Retail	Bernard Arnault &...	74	France	Paris	L
1	11	80500	Fashion & Retail	Francoise Betten...	69	France	Paris	L
2	28	40100	Fashion & Retail	François Pinault &...	86	France	Paris	L
3	71	22000	Food & Beverage	Emmanuel Besnier	52	France	Laval	C
4	184	9800	Logistics	Jacques Saadé, Jr.	51	France	Marseille	S
5	184	9800	Logistics	Rodolphe Saadé	53	France	Marseille	S
6	184	9800	Logistics	Tanya Saadé Zee...	55	France	Marseille	S
7	202	9500	Finance & Invest...	Vincent Bolloré & ...	71	France	Paris	Ir
8	256	8100	Diversified	Laurent Dassault	69	France	Paris	D
9	256	8100	Diversified	Thierry Dassault	66	France	Paris	D

16 rows, showing 10 per page << < Page 1 of 2 > > ↓

```
-- Filtering with WHERE Clause || Multiple conditions | comment the other lines of this block when running this portion
--SELECT * FROM 'billionaires.csv'
--WHERE country = 'France' AND city <> 'Paris';

--another example | comment the other lines of this block when running this portion
--SELECT * FROM 'billionaires.csv'
--WHERE country = 'France' OR country = 'Spain';

-- IN for multiple conditions
SELECT * FROM 'billionaires.csv'
WHERE country IN ('France', 'Spain', 'Italy')
```

	rank int64 1 - 486	finalWorth int64 5400 - 211000	category object Fashion & Re... 32% Diversified 16% 7 others 52%	personName object Bernard Arn... 4% Francoise Be... 4% 23 others 92%	age int64 42 - 88	country object France 64% Italy 28% Spain 8%	city object Paris 36% Milan 16% 7 others 48%	s
0	1	211000	Fashion & Retail	Bernard Arnault &...	74	France	Paris	L
1	11	80500	Fashion & Retail	Francoise Betten...	69	France	Paris	L
2	28	40100	Fashion & Retail	François Pinault &...	86	France	Paris	L
3	71	22000	Food & Beverage	Emmanuel Besnier	52	France	Laval	C
4	184	9800	Logistics	Jacques Saadé, Jr.	51	France	Marseille	S
5	184	9800	Logistics	Rodolphe Saadé	53	France	Marseille	S
6	184	9800	Logistics	Tanya Saadé Zee...	55	France	Marseille	S
7	202	9500	Finance & Invest...	Vincent Bolloré & ...	71	France	Paris	Ir
8	256	8100	Diversified	Laurent Dassault	69	France	Paris	D
9	256	8100	Diversified	Thierry Dassault	66	France	Paris	D

25 rows, showing 10 per page << < Page 1 of 3 >> >

```
-- combine the functions from above
SELECT COUNT(personname) FROM 'billionaires.csv'
WHERE selfmade = 'true'
```

	count(personname) i
0	309

1 row, showing 10 per page << < Page 1 of 1 >> >

```
-- groupby statement
SELECT industries, COUNT(personname) AS billionaire_count --header name change
FROM 'billionaires.csv'
GROUP BY industries
ORDER BY COUNT(personname) DESC --to be in descending or ascending order
--to limit the number for display
LIMIT 10;
```

	industries object Finance & In... 10% Technology 10% 8 others 80%	billionaire_count in... 20 - 77
0	Finance & Invest...	77
1	Technology	62
2	Fashion & Retail	54
3	Manufacturing	44
4	Food & Beverage	43
5	Diversified	31
6	Energy	28
7	Healthcare	27
8	Real Estate	24
9	Metals & Mining	20

10 rows, showing 10 per page << < Page 1 of 1 >> >

```
--Use BY
SELECT birthmonth, COUNT(personname) FROM 'billionaires.csv'
GROUP BY birthmonth
ORDER BY COUNT(personname) DESC;
```

	birthMonth int64 1 - 12	count(personname) i 25 - 84	
0	1	84	
1	9	47	
2	3	46	
3	10	43	
4	8	41	
5	6	39	
6	7	35	
7	4	31	
8	2	29	
9	5	29	

12 rows, showing 10 per page

<< < Page 1 of 2 > >>

