

SQL: DQL

SELECT

```
SELECT [DISTINCT] lista_colonne  
FROM tabella1  
WHERE condizione  
ORDER BY colonna [ASC | DESC]  
LIMIT n;
```





SELECT-FROM

- Elenco degli stati e relativa popolazione

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
American Samoa	OCEANIA	57.794	199
Andorra	EUROPE	71.201	468
Angola	AFRICA	12.127.071	1.246.700
Anguilla	AMERICA	13.477	102
...



SELECT country, population
FROM countries;

country	population
Afghanistan	31.056.997
Albania	3.581.655
Algeria	32.930.091
American Samoa	57.794
Andorra	71.201
Angola	12.127.071
Anguilla	13.477
...	...



SELECT DISTINCT

- Quali sono le regioni del mondo?

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
...

SELECT region
FROM countries;



region
ASIA
EUROPE
AFRICA
OCEANIA
EUROPE
AFRICA
AMERICA
AMERICA
AMERICA
...

SELECT DISTINCT region
FROM countries;



region
ASIA
EUROPE
AFRICA
OCEANIA
AMERICA

SELECT-FROM-WHERE

- Quali stati hanno una superficie superiore a 2.000.000 mq?

```
SELECT country, area
FROM countries
WHERE area>2000000;
```

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
...



country	area
Algeria	2.381.740
Argentina	2.766.890
Australia	7.686.850
Brazil	8.511.965
Canada	9.984.670
China	9.596.960
Congo, Dem. Rep.	2.345.410
Greenland	2.166.086
India	3.287.590
Kazakhstan	2.717.300
Russia	17.075.200
Sudan	2.505.810
United States	9.631.420

SELECT-FROM-WHERE

► Quali stati sono in Europa?

```
SELECT country
FROM countries
WHERE region='EUROPE';
```

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
...



country
Albania
Andorra
Austria
Belarus
Belgium
...

SELECT-FROM-WHERE

- Quali stati europei hanno una popolazione inferiore a 50.000?

```
SELECT country, population
FROM countries
WHERE region='EUROPE' AND
      population<50000;
```

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
...



country	population
Faroe Islands	47.246
Gibraltar	27.928
Liechtenstein	33.987
Monaco	32.543
San Marino	29.251



ORDER BY

- Stati asiatici ordinati in ordine **crescente** di popolazione.

```
SELECT *  
FROM countries  
WHERE region='ASIA'  
ORDER BY population;
```

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
...



country	region	population	area
Maldives	ASIA	359.008	300
Brunei	ASIA	379.444	5.770
Macau	ASIA	453.125	28
Bahrain	ASIA	698.585	665
Cyprus	ASIA	784.301	9.250
Qatar	ASIA	885.359	11.437
East Timor	ASIA	1.062.777	15.007
...



ORDER BY

- Stati asiatici ordinati in ordine **decrescente** di popolazione.

```
SELECT *  
FROM countries  
WHERE region='ASIA'  
ORDER BY population DESC;
```

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
...



country	region	population	area
China	ASIA	1.313.973.713	9.596.960
India	ASIA	1.095.351.995	3.287.590
Indonesia	ASIA	245.452.739	1.919.440
Pakistan	ASIA	165.803.560	803.940
Bangladesh	ASIA	147.365.352	144.000
Japan	ASIA	127.463.611	377.835
Philippines	ASIA	89.468.677	300.000
...

LIMIT

- I tre stati asiatici più popolati.

```
SELECT *  
FROM countries  
WHERE region='ASIA'  
ORDER BY population DESC  
LIMIT 3;
```

country	region	population	area
Afghanistan	ASIA	31.056.997	647.500
Albania	EUROPE	3.581.655	28.748
Algeria	AFRICA	32.930.091	2.381.740
...



country	region	population	area
China	ASIA	1.313.973.713	9.596.960
India	ASIA	1.095.351.995	3.287.590
Indonesia	ASIA	245.452.739	1.919.440