

Questions and Answers

Case Study – Introduction to Relational Database and SQL

Basic Queries SELECT, FROM, WHERE & ORDER BY

1: US states with area size of less than 10,000 acres?

```
SELECT * FROM us_state WHERE area_size <= 10000
```

Results:

abbreviation	name	capital	area_size
CT	Connecticut	Hartford	4845
DC	District of Columbia	Washington	68
DE	Delaware	Dover	1955
HI	Hawaii	Honolulu	6423
MA	Massachusetts	Boston	7838
MD	Maryland	Annapolis	9775
NH	New Hampshire	Concord	8969
NJ	New Jersey	Trenton	7419
RI	Rhode Island	Providence	1034
VT	Vermont	Montpelier	9249
NULL	NULL	NULL	NULL

2: What is the state capital of California?

```
SELECT name, capital FROM us_state WHERE name = "California"
```

Results:

name	capital
California	Sacramento

3: Order the states by area size from largest to smallest.

```
SELECT * FROM us_state ORDER BY area_size DESC
```

Results:

abbreviation	name	capital	area_size
MI	Michigan	Lansing	56539
IA	Iowa	Des Moines	55875
IL	Illinois	Springfield	55593
WI	Wisconsin	Madison	54314
FL	Florida	Tallahassee	53997
AR	Arkansas	Little Rock	52075
AL	Alabama	Montgomery	50750
NC	North Caro...	Raleigh	48718
NY	New York	Albany	47224
MS	Mississippi	Jackson	46914
PA	Pennsylvania	Harrisburg	44820
LA	Louisiana	Baton Rouge	43566
TN	Tennessee	Nashville	41220
OH	Ohio	Columbus	40953
KY	Kentucky	Frankfort	39732
VA	Virginia	Richmond	39598
IN	Indiana	Indianapolis	35870
ME	Maine	Augusta	30865
SC	South Caro...	Columbia	30111
WV	West Virginia	Charleston	24087

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abbreviation	name	capital	area_size
AK	Alaska	Juneau	570641
TX	Texas	Austin	216914
CA	California	Sacramento	155973
MT	Montana	Helena	145556
NM	New Mexico	Santa Fe	121365
AZ	Arizona	Phoenix	113642
NV	Nevada	Carson City	109806
CO	Colorado	Denver	103730
WY	Wyoming	Cheyenne	97105
OR	Oregon	Salem	96003
ID	Idaho	Boise	82751
UT	Utah	Salt Lake City	82168
KS	Kansas	Topeka	81823
MN	Minnesota	Saint Paul	79617
NE	Nebraska	Lincoln	76878
SD	South Dakota	Pierre	75898
ND	North Dakota	Bismarck	68994
MO	Missouri	Jefferson ...	68898
OK	Oklahoma	Oklahoma ...	68679
WA	Washington	Olympia	66582

ME	Maine	Augusta	30865
SC	South Caro...	Columbia	30111
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