

Relation *movies*

	<i>genre</i>	<i>country</i>
50 instances {	action	US
10 instances {	fantasy	IT
30 instances {	action	IT
20 instances {	fantasy	JP

```
SELECT *  
FROM movies  
WHERE genre = 'fantasy'
```

Filter predicate
modifies distribution
or unrelated
attribute

$\sigma(\text{movies})$

	<i>genre</i>	<i>country</i>
50 instances {	action	US
10 instances {	fantasy	IT
30 instances {	action	IT
20 instances {	fantasy	JP

Top-3 List
of *country*

US: 50 → IT: 40 → JP: 20

Top-3 List
of $\sigma(\text{country})$

JP: 20 → IT: 10

Top-k list of the base table
does not reflect reality