

WHERE

Mag. Thomas Griesmayer

- Check the following links:

https://www.w3schools.com/sql/sql_select.asp

https://www.w3schools.com/sql/sql_where.asp

```
SELECT *  
FROM DVD d
```

Results 1 X

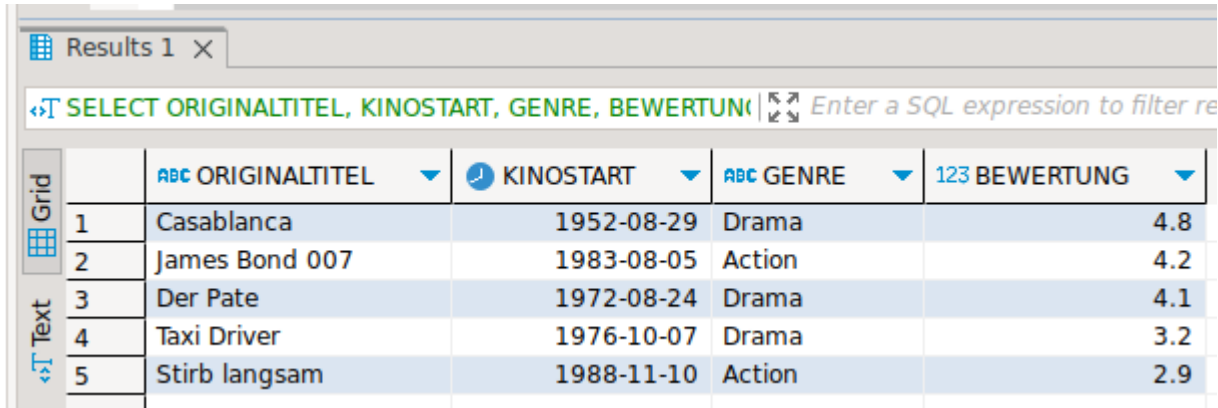
SELECT * FROM DVD d *Enter a SQL expression to filter results (use Ctrl+Space)*

	DVIDID	ORIGINALTITEL	UNTERTITEL	BESCHREIBUNG	REGIE	
1	0	Casablanca		Er schaut ihr wieder in	Michael Curtiz	1
2	1	James Bond 007	Octopussy	Im 13. Bond-Abenteuer	John Glen	
3	2	Der Pate		Francis Ford Coppolas k	Francis Ford Cop	
4	3	Taxi Driver		Die Wiederaufführung	Martin Scorsese	
5	4	Stirb langsam		Gangster besetzen ein	John McTiernan	

Projektion

- Die Projektion kann auch Attributbeschränkung genannt werden.
- Sie extrahiert einzelne Attribute aus der ursprünglichen Attributmenge und ist somit als eine Art Selektion auf Spaltenebene zu verstehen, das heißt, die Projektion blendet Spalten aus.

```
SELECT ORIGINALTITEL,  
        KINOSTART,  
        GENRE,  
        BEWERTUNG  
FROM    DVD
```



The screenshot shows a database query results window. At the top, there is a tab labeled "Results 1" with a close button. Below the tab, the SQL query is displayed: "SELECT ORIGINALTITEL, KINOSTART, GENRE, BEWERTUNG". To the right of the query, there is a placeholder text: "Enter a SQL expression to filter re". Below the query, there is a table with 5 rows and 5 columns. The columns are labeled "ORIGINALTITEL", "KINOSTART", "GENRE", and "BEWERTUNG". The rows contain the following data:

	ORIGINALTITEL	KINOSTART	GENRE	BEWERTUNG
1	Casablanca	1952-08-29	Drama	4.8
2	James Bond 007	1983-08-05	Action	4.2
3	Der Pate	1972-08-24	Drama	4.1
4	Taxi Driver	1976-10-07	Drama	3.2
5	Stirb langsam	1988-11-10	Action	2.9

WHERE

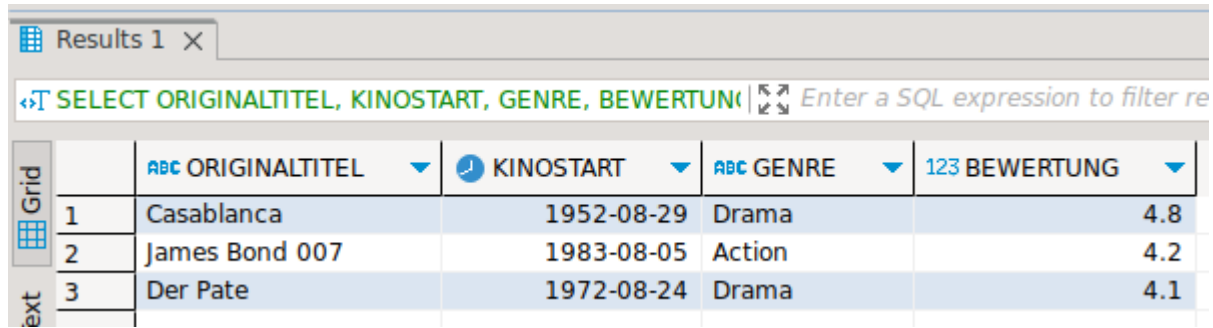
- The WHERE clause is used to filter records.
- It is used to extract only those records that fulfill a specified condition.

Operator	Description
=	equal
>	greater than
<	less than
>=	greater than or equal
<=	less than or equal
<>	not equal
BETWEEN	between a certain range
LIKE	search for a pattern
IN	specify multiple possible values for a column

https://www.w3schools.com/sql/sql_where.asp (16.8.2023)

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```
SELECT ORIGINALTITEL,  
        KINOSTART,  
        GENRE,  
        BEWERTUNG  
FROM    DVD  
WHERE   BEWERTUNG >= 4.0
```



Results 1 x

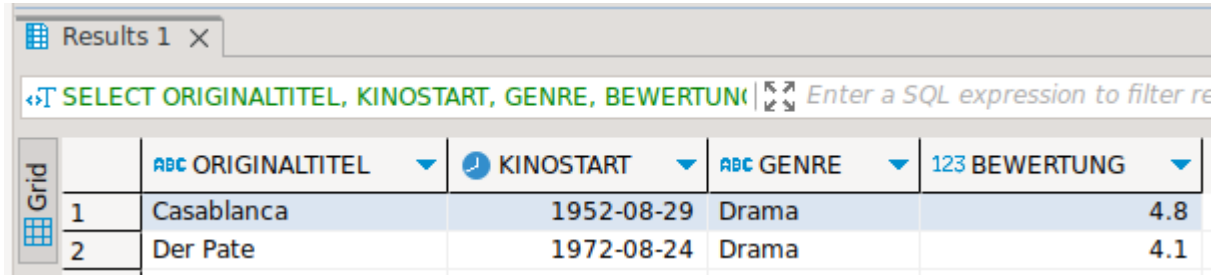
SELECT ORIGINALTITEL, KINOSTART, GENRE, BEWERTUNG | Enter a SQL expression to filter re

Grid		ABC ORIGINALTITEL	KINOSTART	ABC GENRE	123 BEWERTUNG
1		Casablanca	1952-08-29	Drama	4.8
2		James Bond 007	1983-08-05	Action	4.2
3		Der Pate	1972-08-24	Drama	4.1

AND OR operator

- The AND operator returns a record if both conditions are TRUE.
- The OR operator returns a record if one condition is TRUE.


```
SELECT ORIGINALTITEL,  
        KINOSTART,  
        GENRE,  
        BEWERTUNG  
FROM DVD  
WHERE BEWERTUNG >= 4.0 AND  
      GENRE = 'Drama'
```



Results 1 x

SELECT ORIGINALTITEL, KINOSTART, GENRE, BEWERTUNG | Enter a SQL expression to filter re

	ABC ORIGINALTITEL	KINOSTART	ABC GENRE	123 BEWERTUNG
1	Casablanca	1952-08-29	Drama	4.8
2	Der Pate	1972-08-24	Drama	4.1

Wildcard characters

- % represents zero or more characters
- _ represents a single character

- Sample:

```
WHERE ORIGINALTITLE LIKE 'J%'
```

```
WHERE ORIGINALTITLE LIKE '%007'
```

```
WHERE ORIGINALTITLE LIKE '%Bond%'
```

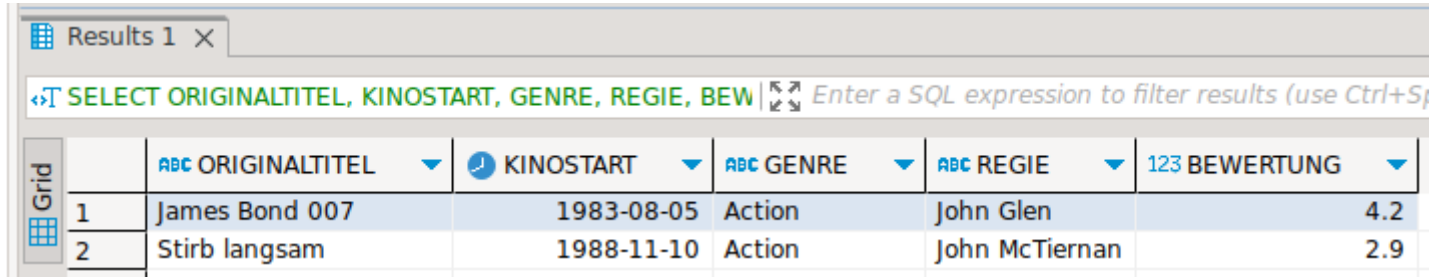
```
WHERE ORIGINALTITLE LIKE '_r%'
```

```
WHERE ORIGINALTITLE LIKE 'U__%'
```

```
WHERE ORIGINALTITLE LIKE 'J%d'
```

```
WHERE ORIGINALTITLE LIKE 'J%B%'
```

```
SELECT ORIGINALTITEL,  
        KINOSTART,  
        GENRE,  
        REGIE,  
        BEWERTUNG  
FROM DVD  
WHERE REGIE LIKE 'John%'
```



Results 1 x

SELECT ORIGINALTITEL, KINOSTART, GENRE, REGIE, BEWERTUNG Enter a SQL expression to filter results (use Ctrl+S)

	ABC ORIGINALTITEL	KINOSTART	ABC GENRE	ABC REGIE	123 BEWERTUNG
1	James Bond 007	1983-08-05	Action	John Glen	4.2
2	Stirb langsam	1988-11-10	Action	John McTiernan	2.9