GROUP

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- Check the following link:
  https://www.w3schools.com/sql/sql_groupby.asp

GROUP BY

- The GROUP BY statement groups rows that have the same values into summary rows, like "find the number of DVDs in each genre".
- The GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.

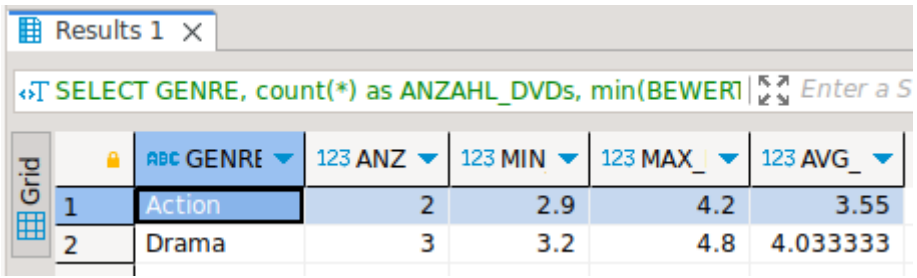
	ABC ORIGINALTITEL	ABC GENRE	123 BEWERTUNG
1	James Bond 007	Action	4.2
2	Stirb langsam	Action	2.9
3	Casablanca	Drama	4.8
4	Der Pate	Drama	4.1
5	Taxi Driver	Drama	3.2

GROUP BY

AGGREGATE

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

```
SELECT GENRE,
       count(*) as ANZAHL_DVDs,
       min(BEWERTUNG) as MIN_BEWERTUNG,
       max(BEWERTUNG) as MAX_BEWERTUNG,
       avg(BEWERTUNG) as AVG_BEWERTUNG
FROM   DVD d
GROUP BY GENRE
```



	GENRE	ANZ	MIN	MAX_	AVG_
1	Action	2	2.9	4.2	3.55
2	Drama	3	3.2	4.8	4.033333

HAVING

- The HAVING clause was added to SQL because the WHERE keyword cannot be used with aggregate functions.

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

```
SELECT GENRE,
       count(*) as ANZAHL_DVDs,
       min(BEWERTUNG) as MIN_BEWERTUNG,
       max(BEWERTUNG) as MAX_BEWERTUNG,
       avg(BEWERTUNG) as AVG_BEWERTUNG
FROM   DVD d
GROUP BY GENRE
HAVING count(*) > 2
```