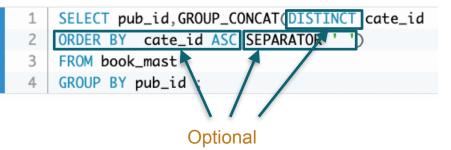


Aggregerade funktioner

- AVG
- COUNT
- SUM
- MIN
- MAX
- GROUP_CONCAT
 - DISTINCT
 - ORDER BY
 - SEPARATOR

GROUP_CONCAT

book_id	book_name	isbn_no	cate_id	aut_id	pub_id	dt_of_pub	pub_lang	no_page	book_price
BK001	Introduction to Electrodynamics	0000979001	CA001	AUT001	P003	2001-05-08	English	201	85.00
BK002	Understanding of Steel Construction	0000979002	CA002	AUT002	P001	2003-07-15	English	300	105.50
BK003	Guide to Networking	0000979003	CA003	AUT003	P002	2002-09-10	Hindi	510	200.00
BK004	Transfer of Heat and Mass	0000979004	CA002	AUT004	P004	2004-02-16	English	600	250.00
BK005	Conceptual Physics	0000979005	CA001	AUT005	P006	2003-07-16	NULL	345	145.00
BK006	Fundamentals of Heat	0000979006	CA001	AUT006	P005	2003-08-10	German	247	112.00
BK007	Advanced 3d Graphics	0000979007	CA003	AUT007	P002	2004-02-16	Hindi	165	56.00
BK008	Human Anatomy	0000979008	CA005	AUT008	P006	2001-05-17	German	88	50.50



```
GROUP CONCAT(DISTINCT cate id
 pub id
          cate id ASC SEPARATOR ' ')
 P001
           CA002 CA004
 P002
           CA003
 P003
           CA001 CA003
 P004
           CA002 CA005
           CA001 CA004
 P005
 P006
           CA001 CA005
           CA002 CA005
 P007
 P008
           CA004 CA005
8 rows in set (0.00 sec)
```

Sträng-funktioner

- CONCAT
- LENGTH
- LEFT
- REPLACE
- SUBSTRING
- TRIM
- FORMAT

Datum-funktioner

- CURDATE
- DATEDIFF
- DAY
- DATE_ADD
- DATE_SUB
- DATE_FORMAT
- DAYNAME
- DAYOFWEEK

- NOW
- MONTH
- STR_TO_DATE
- WEEK
- WEEKDAY
- YEAR

Subqueries

- Predicate subqueries utökade logiska konstruktioner i WHEREoch HAVING-delarna.
- Skalära subqueries fristående frågor som returnerar ett enda värde.

Predicate subqueries

 Kan enbart användas i WHERE- och HAVINGdelarna. Måste returnera en kolumn.

```
mysql> SELECT * FROM Client WHERE C ID IN
   -> (SELECT C ID FROM Products);
 C ID | Name
                  | City
       | A K Ltd
                 | Delhi
      | V K Associate | Mumbai
        R K India | Banglore |
       | A T Ltd
                      | Delhi
4 rows in set (0.00 sec)
```

Skalära subqueries

- Returnerar ett enda värde.
- Kan användas där en kolumn kan användas.

