

# AggregateFunctions\_HandsOn

December 14, 2022

```
[ ]: use books_store_db;
```

## 1 Aggregate Functions - Hands On

### 1.1 Demo Database : books\_store\_db

#### 1.1.1 Entity-Relationship (ER) Diagram:

#### 1.1.2 DB Dump:

You can load the schema and data from next dump file: books\_store\_db\_full\_dump.sql

### 1.2 Tasks

#### 1.2.1 Task 1

What is the price of most expensive book?

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[ ]:
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#### 1.2.2 Task 2

What is the book name and price of most expensive book?

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[ ]:
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#### 1.2.3 Task 3

Select author, book\_name and price of most expensive book?

TIP: use [CONCAT](#) function for to concatenate author names in output.

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[ ]:
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#### 1.2.4 Task 4

Select author, book\_name and price of all books which price is above average books price.

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### 1.2.5 Task 5

Select the book prices of most expensive book of each author?

[ ]:

### 1.2.6 Task 6

Select author,book\_name and price of most expensive book of each author?

[ ]:

### 1.2.7 Task 7

Select author, book name and price of all books bought by 'Ivan', sorted by book price in descending order

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### 1.2.8 Task 8

Select the total sum of Ivan's books orders

[ ]:

### 1.2.9 Task 9

How many books each client have ordered?

[ ]:

### 1.2.10 Task 10

How many books each client have ordered and what is the total sum each of them have paid?

[ ]:

### 1.2.11 Task 11

Select name, age and count of books of all clients which have ordered more than 2 books.

[ ]:

### 1.2.12 Task 12

Select author, book name, pub\_year and price of the most expensive book published after 1950 year

[ ]:

### 1.2.13 Task 13

Select the city names where each client lives.

Tip: use [GROUP\\_CONCAT](#) aggregate function.

[ ]:

### 1.2.14 Task14

Select author name and publishing years (if any) for each of the authors born after 1950 year.

[ ]:

### 1.2.15 Task 15 (advanced)

How many books are in next price ranges:

- Group 1: 0 - 50
- Group 2: 50 - 99
- Group 3: 100 - 199
- Group 4: >200

Tip: use [MySQL CASE Operator](#)

More on [Flow Control Operators](#)

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