**My SQL most interesting queries during training**

**(from easy to hard)**

SELECT author, title,

ROUND(IF(author = "Булгаков М.А.", price \* 1.1, IF(author = "Есенин С.А.", price \* 1.05, price)), 2) as new\_price

FROM book

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SELECT author, SUM(price \* amount) as Стоимость

FROM book

WHERE title <> "Идиот" AND title <> "Белая гвардия"

GROUP BY author

HAVING SUM(price \* amount) > 5000

ORDER BY Стоимость DESC

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SELECT name, SUM((DATEDIFF(date\_last, date\_first) + 1) \* per\_diem) AS Сумма

FROM trip

GROUP BY name

HAVING COUNT(name) > 3

ORDER BY Сумма DESC

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SELECT title, author, amount,

(SELECT MAX(amount)

FROM book

) - amount AS Заказ

FROM book

WHERE abs(amount - (SELECT MAX(amount) FROM book)) <> 0;

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UPDATE book, supply

SET book.amount = book.amount + supply.amount,

book.price = IF(book.price <> supply.price, (book.price + supply.price) / 2, book.price)

WHERE book.title = supply.title AND book.author = supply.author;

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DELETE

FROM supply

WHERE author IN (

SELECT author

FROM book

GROUP BY author

HAVING SUM(amount) >= 10

);

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CREATE TABLE ordering AS

SELECT author, title,

(

SELECT ROUND(AVG(amount))

FROM book

) AS amount

FROM book

WHERE amount < (

SELECT AVG(amount)

FROM book

);

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UPDATE fine AS f, payment AS p

SET f.sum\_fine = IF(DATEDIFF(p.date\_payment, p.date\_violation) <= 20, f.sum\_fine / 2, f.sum\_fine),

f.date\_payment = p.date\_payment

WHERE (f.date\_payment IS NULL) AND f.number\_plate IN(p.number\_plate);

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UPDATE fine,

(

SELECT name, number\_plate, violation

FROM fine

GROUP BY name, number\_plate, violation

HAVING COUNT(number\_plate) > 1

) query\_in

SET sum\_fine = sum\_fine \* 2

WHERE (date\_payment IS NULL) AND fine.number\_plate IN(query\_in.number\_plate);

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SELECT name\_author, SUM(amount) AS Количество

FROM

author LEFT JOIN book

ON author.author\_id = book.author\_id

GROUP BY author.name\_author

HAVING (SUM(amount) BETWEEN 0 AND 10) OR COUNT(title) = 0

ORDER BY Количество

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SELECT name\_genre, title, name\_author

FROM

genre INNER JOIN book

ON genre.genre\_id = book.genre\_id

INNER JOIN author

ON author.author\_id = book.author\_id

WHERE genre.name\_genre LIKE "Роман"

ORDER BY title

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