



**Kampus  
Merdeka**  
INDONESIA JAYA



# SQL STATEMENT: UPDATE AND DELETE

Bachelor of Information Systems

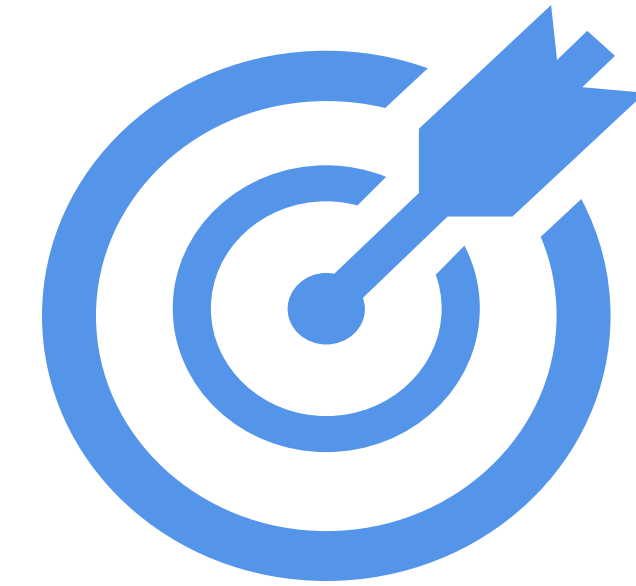


INTRODUCTION TO  
DATABASE AND INFORMATION SYSTEM



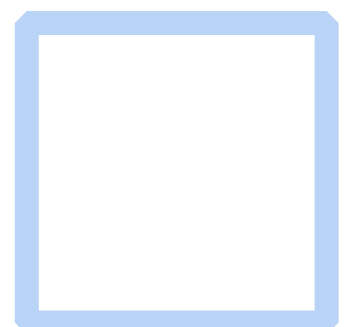
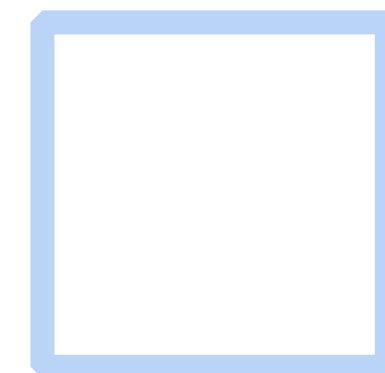
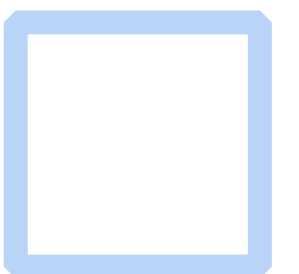
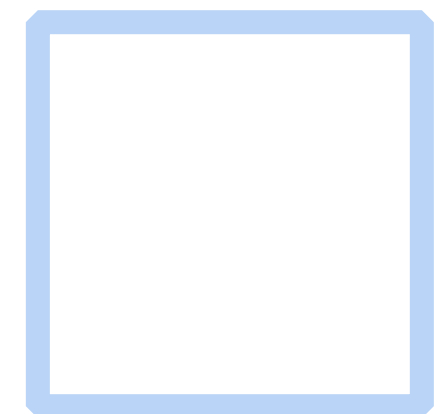
# Learning Objective(s)

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This material should address the following question(s).

- ? How do we modify the existing records in a database table in SQL?
- ? How do we remove the existing records from a database table in SQL?



# Question



How do we **modify the existing records** in a database table in SQL?

# UPDATE

- The **UPDATE** statement allows us to alter data in the table.
- Syntax:  
**UPDATE** TableName  
**SET** column1=value1, column2=value2,  
...  
**WHERE** condition;
  - If you omit the WHERE clause, all records in the table will be updated!

## Example:

Table named **Books** stores information about books.

**Books**

isbn_13	title	authors	publisher	published_year	edition
978-9380931913	Data Mining: Co...	Jiawei Han, Micheline Kamber	Morgan Kaufmann	2011	3
978-1945051753	SQL QuickStart...	Walter Shields	ClydeBank Media LLC	2019	1
978-0078022128	Software Engine...	Roger S. Pressman, Bruce Maxim	McGraw-Hill	2014	8
978-0078022159	Database System...	A. Silberschatz, H. F. Korth, S. Sudarshan	McGraw-Hill	2019	7

Update **edition** of the book with isbn\_13 **978-9380931913** to **4**.

```
UPDATE Books
SET edition=4
WHERE isbn_13="978-9380931913";
```

isbn_13	title	authors	publisher	published_year	edition
978-9380931913	Data Mining: Co...	Jiawei Han, Micheline Kamber	Morgan Kaufmann	2011	4
978-1945051753	SQL QuickStart...	Walter Shields	ClydeBank Media LLC	2019	1
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# Question



How do we **modify the existing records** in a database table in SQL?

# DELETE

- The **DELETE** statement is used to remove data from your table.
- **DELETE** queries work much like UPDATE queries..
- Syntax:  
**DELETE FROM TableName**  
**WHERE condition;**
  - If you omit the WHERE clause, all records in the table will be deleted!
  - The DELETE statement removes the records from the table permanently.

## Example:

Table named **Books** stores information about books.

**Books**

isbn_13	title	authors	publisher	published_year	edition
978-9380931913	Data Mining: Co...	Jiawei Han, Micheline Kamber	Morgan Kaufmann	2011	3
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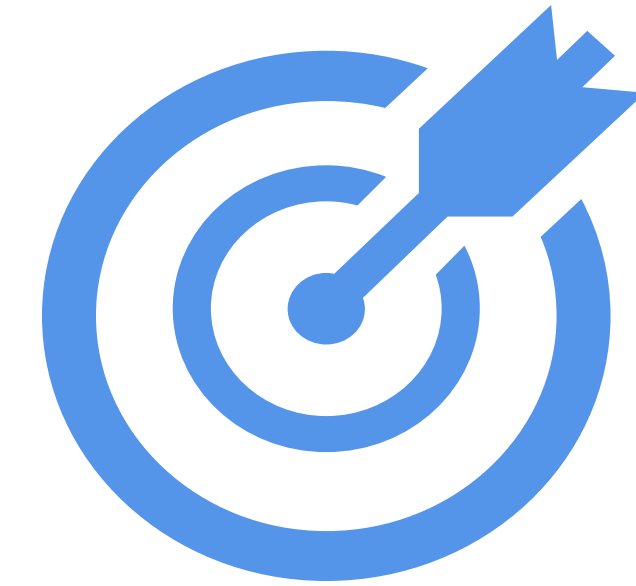
Delete the book with isbn\_13 **978-9380931913**.

```
DELETE FROM Books
WHERE isbn_13="978-9380931913";
```

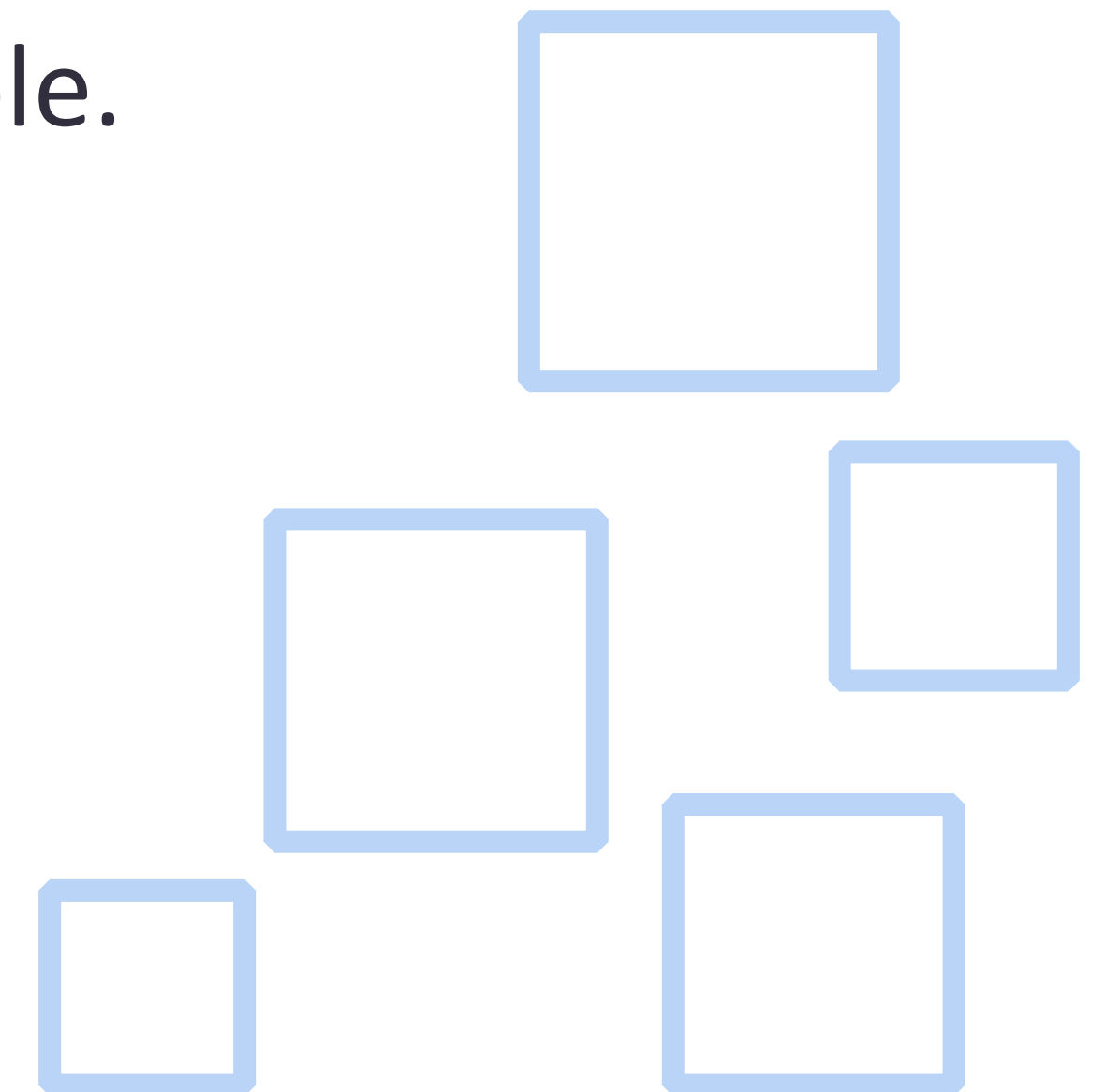
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# Conclusion

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- ✓ The **UPDATE** statement allows us to alter data in the table.
- ✓ The **DELETE** statement is used to remove data from your table.



# References

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- R, Elmasri, et. al., Fundamentals of Database Systems.
- A. Silberschatz, et. al., Database System Concepts.
- R. K. Rainer, et. al., Introduction to Information Systems.
- G. M. Marakas et. al., Introduction to Information Systems: Essentials for The e-Business Enterprise.



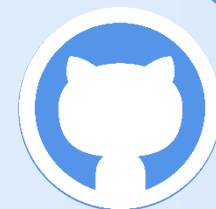


## Course



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