

# Module 4: Advanced DDL & DML

## **Lesson 1: SELECT statement advanced**

- Simplify SELECT statements
- String Patterns
- Ranges
- Set of Values

# Retrieving rows from a table

```
select * from AUTHOR
```

100 %

Results Messages

	AUTHOR_ID	LAST_NAME	FIRST_NAME	EMAIL	CITY	COUNTRY
1	A1	Sharma	Ajay	as@gmail.com	Pune	India
2	A2	Pal	Karan	kp@yahoo.com	Mumbai	India
3	A3	Shah	Vinay	vsh@gmail.com	Kolkata	India
4	A4	Kale	Ram	ramk@hotmail.com	Delhi	India
5	A5	Wright	John	jw@hotmail.com	Houston	USA
6	A6	Wood	Bob	BobW@hotmail.com	Toronto	Canada

```
select AUTHOR_ID, FIRST_NAME, LAST_NAME from AUTHOR
```

100 %

Results Messages

	AUTHOR_ID	FIRST_NAME	LAST_NAME
1	A1	Ajay	Sharma
2	A2	Karan	Pal
3	A3	Vinay	Shah
4	A4	Ram	Kale
5	A5	John	Wright
6	A6	Bob	Wood

```
select * from AUTHOR WHERE AUTHOR_ID = 'A3';
```

100 %

Results Messages

	AUTHOR_ID	LAST_NAME	FIRST_NAME	EMAIL	CITY	COUNTRY
1	A3	Shah	Vinay	vsh@gmail.com	Kolkata	India

# Retrieving rows using String Pattern

```
select AUTHOR_ID, FIRST_NAME, LAST_NAME from AUTHOR  
WHERE LAST_NAME like 'W%'
```

100 %

Results Messages

	AUTHOR_ID	FIRST_NAME	LAST_NAME
1	A5	John	Wright
2	A6	Bob	Wood

# Retrieving rows using Range

```
select * from BOOK  
WHERE pages >= 200 and pages <=300
```

100 %

Results Messages

	TITLE	description	ISBN	pages	price	edition	Year
1	Getting started with Database	Teaches you how to get started with database	875-4832-1-1	200	19.99	1	2022

```
select * from BOOK  
WHERE pages between 200 and 300
```

100 %

Results Messages

	TITLE	description	ISBN	pages	price	edition	Year
1	Getting started with Database	Teaches you how to get started with database	875-4832-1-1	200	19.99	1	2022

# Retrieving rows using set of Values

```
select AUTHOR_ID, FIRST_NAME, LAST_NAME from AUTHOR  
WHERE COUNTRY = 'India' or COUNTRY= 'USA'
```

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Results Messages

	AUTHOR_ID	FIRST_NAME	LAST_NAME
1	A1	Ajay	Sharma
2	A2	Karan	Pal
3	A3	Vinay	Shah
4	A4	Ram	Kale
5	A5	John	Wright

```
select AUTHOR_ID, FIRST_NAME, LAST_NAME from AUTHOR  
WHERE COUNTRY IN('India', 'USA')
```

100 %

Results Messages

	AUTHOR_ID	FIRST_NAME	LAST_NAME
1	A1	Ajay	Sharma
2	A2	Karan	Pal
3	A3	Vinay	Shah
4	A4	Ram	Kale
5	A5	John	Wright



# Summary

- How to use SELECT statement using
  - String Pattern
  - Range of Values
  - Set of values