Today's session : Generators

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-> Generators are used to generate the value for primary key columns

-> When we are storing data into database table we will maintain primary key in every database table

-> Primary Key is a constraint in database which contains below 2 rules

1) NOT NULL

2) UNIQUE

Ex: Emp\_id, book\_isbn, order\_id, trigger\_id, ticket\_id etc....

-> In every web application we will have multiple forms to collect data

Ex: user registration form

-> When user register we will store user data in database table

-> When we are capturing data from user we don't ask to enter user\_id because user may enter duplicate value.

-> User\_id will be generated by application because user\_id will be primary key in the users table

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@Id

@GeneratedValue

@Column(name = "USER\_ID")

private Integer userId;

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-> When we use @GeneratedValue it will use a default sequence "hibernate\_sequence" to get the next value for primary key column

Note: Sequence will support in oracle database where as mysql db will not support for sequence.

-> When we use mysql database it will use auto\_increment concept to generate the value for primary key column.

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-> IN realtime we will use custom sequences to generate value for primary key column

Sequence Creation

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create sequence user\_id\_seq

start with 1

increment by 1;

Getting value from sequence

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select user\_id\_seq.nextval from dual

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@Id

@SequenceGenerator(name = "abc", sequenceName = "user\_id\_sequence", allocationSize = 1)

@GeneratedValue(generator = "abc", strategy = GenerationType.SEQUENCE)

@Column(name = "USER\_ID")

private Integer userId;

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AIT1, AIT2, AIT3......