Data Modification Techniques

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Outline

- **INSERT Statement**
- **UPDATE Statement**
- **DELETE Statement**

Insert Statement

- **Single Row Insert**
  - Using VALUES clause
  - Using SELECT statement
- **Multi Row Insert**
  - Multiple VALUES clause
  - Using SELECT statement
- **Default Values**
- **NULL Values**

Update Statement

- **Update Single Row Single Column**
- **Update Single Row Multiple Columns**
- **Update Multiple Rows Single Column**
- **Update Multiple Rows Multiple Columns**
- **Update using SELECT Statement**

Delete Statement

- **Delete Single Row**
- **Delete Multiple Rows**
- **Delete using SELECT Statement**
- **Delete all Rows from Table**

Summary in Sixty Seconds

#1 Use SELECT statement in subquery when inserting, updating or deleting multiple rows at the same time

#2 Do not forget to specify WHERE clause in DELETE or UPDATE statement or it will modify your entire table

#3 By default MySQL Workbench runs in safe update mode preventing users to make accidental updates. Disable safe mode only when required.