

→ Stored Procedures

- a. Stored procedure is a pre-compiled and Pre-written program that can be executed within MySQL server
- b. It is stored in MySQL database and can be called from an application or directly from MySQL client(User)
- c. Stored Procedures are commonly used to simplify complex database operations, improve performance
- d. Stored procedure can be more complex, and can include control statements, loops, conditional statements and exception handling codes
- e. Uses of Stored procedure:
 - i. Data Validation: It can be used to validate the data before it is inserted or updated in a database. For example, we have created a stored procedure to check whether a student have filled the valid mobile number, email before inserting into database
 - ii. Report Generation: It can be used to generate reports based on queries
 - iii. Transactions: Stored procedure can be used to execute a transaction that involves multiple steps or queries. For example, if we want to transfer funds between bank accounts, stored procedure will ensure that transaction will be executed in a secure manner
 - iv. asa
- f. They can also modify data in database in addition to SELECT statements
- g. While creating stored procedure, we can use the following keywords in the parameters, which include
 - i. IN:
 - 1. It is used to pass input value to procedures or functions
 - 2. These parameters can be used in SELECT, INSERT, UPDATE or DELETE statements
 - ii. OUT:
 - 1. It is used to return a single value from the procedure or a function
 - 2. These parameters can be used to return value such as result error or any statement
 - iii. INOUT:
 - 1. This parameter is used when you want to pass a value to a procedure and also receives a modified value back from a procedure
 - iv.
 - v. asa
- h. asa

→ Interview challenge / problem

- a. What do we use for validation?
 - i. <complete_here>
- b. asa

→Trigger

- a. A trigger is a stored program invoked automatically in response to an event such as INSERT, UPDATE, DELETE events
- b. Before INSERT, a trigger can be used to validate data before it is inserted into the table
- c. After UPDATE, a trigger can be used to update another table based on changes made to the original table
- d.
- e. asa

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