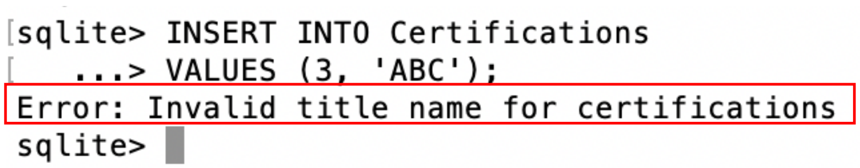
Demonstrate working of trigger:

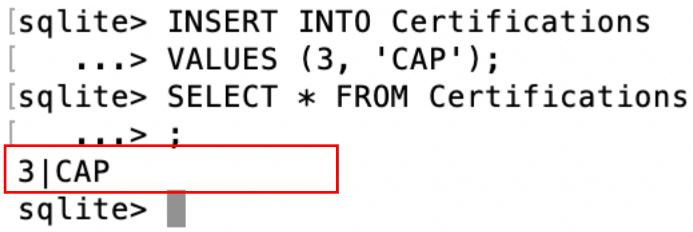
## *Trigger 1*

Trigger1: validate_title_before_insert_certifications
Purpose: incorporate validation checking for Enum values
Test result in terminal:



```
[sqlite> INSERT INTO Certifications
[   ...> VALUES (3, 'ABC');
Error: Invalid title name for certifications
sqlite> 
```

With trigger, when user tries to insert any values that not belong to certain types, there will be an error message to prevent inserting.

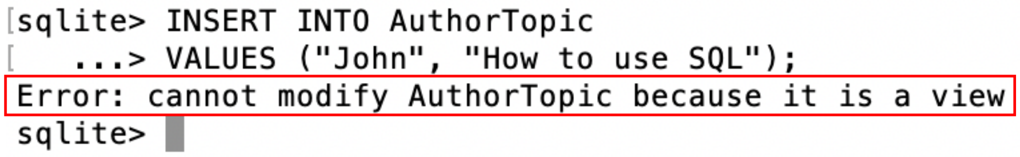


```
[sqlite> INSERT INTO Certifications
[   ...> VALUES (3, 'CAP');
[sqlite> SELECT * FROM Certifications
[   ...> ;
3|CAP
sqlite> 
```

As we can see here, only valid title can be inserted into Certifications table

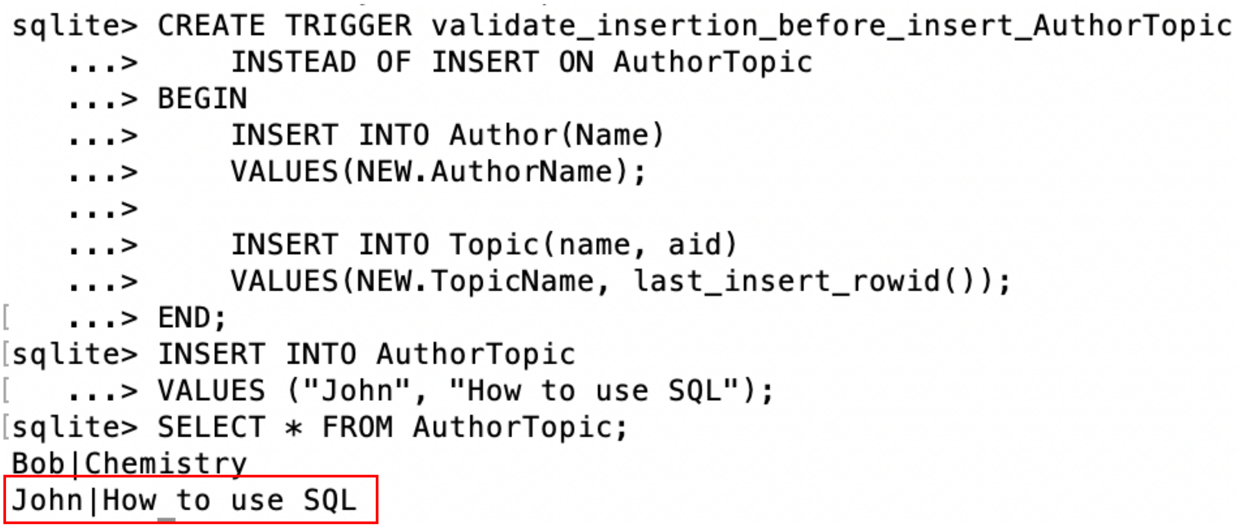
## *Trigger 2*

Trigger2: validate_insertion_before_insert_AuthorTopic
Purpose: let user be able to insert a new record into a VIEW
Test result in terminal:



```
[sqlite> INSERT INTO AuthorTopic
[   ...> VALUES ("John", "How to use SQL");
Error: cannot modify AuthorTopic because it is a view
sqlite> 
```

Without trigger, we can't insert values into a VIEW.



```
 sqlite> CREATE TRIGGER validate_insertion_before_insert_AuthorTopic
    ...>     INSTEAD OF INSERT ON AuthorTopic
    ...> BEGIN
    ...>     INSERT INTO Author(Name)
    ...>     VALUES(NEW.AuthorName);
    ...>
    ...>     INSERT INTO Topic(name, aid)
    ...>     VALUES(NEW.TopicName, last_insert_rowid());
[   ...> END;
[sqlite> INSERT INTO AuthorTopic
[   ...> VALUES ("John", "How to use SQL");
[sqlite> SELECT * FROM AuthorTopic;
 Bob|Chemistry
 John|How to use SQL
```

With trigger, we can successfully insert a value into a VIEW!