Lab Manual

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EE436L: Database Engineering

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Name _____

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Views and Triggers

Views in MySQL help to encapsulate complex query and make it reusable. It also provides user security on each view - it depends on your data policy security. There are a few commands which are applied on Database to create, edit, or delete any view.

1. **COMMAND NAME: CREATE VIEW**
   COMMAND DESCRIPTION: CREATE VIEW command is used to define a view.
2. **COMMAND NAME: INSERT IN VIEW**
   COMMAND DESCRIPTION: INSERT command is used to insert a new row into the view.
3. **COMMAND NAME: DELETE IN VIEW**
   COMMAND DESCRIPTION: DELETE command is used to delete a row from the view.
4. **COMMAND NAME: UPDATE OF VIEW**
   COMMAND DESCRIPTION: UPDATE command is used to change a value in a tuple without changing all values in the tuple.
5. **COMMAND NAME: DROP OF VIEW**
   COMMAND DESCRIPTION: DROP command is used to drop the view table

Please write the following queries to create and access the views on the database that you are using in last 2 labs.
I.   Use views to list the details of all rooms at the Marriott Hotel, including the name of the guest(s) staying in the room, if the room is occupied and the prices of the rooms. (VIEW1)

II. Use View to List the names and addresses of all guests in London, alphabetically ordered by name. (VIEW2)
III. Use View to List the bookings for which no dateTo has been specified. (VIEW3)
IV. Insert a new tuple in VIEW2 by using "INSERT INTO VIEW2" command and check if new data has updated the original table or not.
V. Update the price of all rooms in VIEW1 and check if update operation is performed on original database or not.
VI. Create a trigger to audit the changes of the employee table. First, create an employee table with appropriate attributes. Then, create an employeeAudit table that keeps the changes in the employee table. Add appropriate attributes in the table. In order to fetch the details of trigger, you may refer the following link:
https://www.w3resource.com/mysql/mysql-triggers.php