Objective:

How can we insert, delete or update tuples in a View.

Remember, views are NOT stored tables. They are virtual.

But, Views are some users entire “view” of the database.

Solution:

Modification to View rewritten to modify base tables. (Rewriting should be performed automatically by the system) using INSTEAD OF Triggers.

1. Execute arena.sql

The tables created have the following schemas (with the primary keys underlined):

Activities (ActivityID, ActivityName)

Performers (PerformerID, PerformerName, Street, City, State, Zip, ActivityID)

Arenas (ArenaID, ArenaName, City, ArenaCapacity)

Concerts (PerformerID, ArenaID, ConcertDate, TicketPrice)

1. Write SQL queries to accomplish the following tasks.
   1. Create a view Perf\_D to list the id and name of Performers belonging to state ‘NY’ and involved in activity with Id = 3.
   2. Execute DELETE FROM Perf\_D where PerformerID = 7.
   3. Does the query suceed? Why?
   4. Write a trigger to make this possible.
   5. Test if the deletion is successful on both the view and the base tables.
2. Create a view Concert\_P to list the Performer id, Arena id and TicketPrice of performers performing in arena 6.
   1. Design a mechanism such that the following query can be execute:
   2. UPDATE Concert\_IP set TicketPrice = 25 where TicketPrice < 20;
   3. Design a mechanism such that the following query can be execute:
   4. INSERT INTO Concert\_P VALUES(2,6, 25);
   5. Test if the insertion is successful on both the view and the base tables.
   6. Now insert the following: INSERT INTO Concert\_P VALUES(2, 3, 25);
   7. What is the reasone for the output: SELECT \* FROM Concert\_P.