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UCS1412 – Database Lab
Assignment – 4

Assigned: 07-Feb-20

Title: Views – Security

Views

Aim:

To create a view based on table(s) or view(s) and observe its behavior while performing update operations on it.

Use the schema from Assignment – 3 for the following:

1. Create a view *Schedule_15* that display the flight number, route, airport(origin, destination) departure (date, time), arrival (date, time) of a flight on 15 apr 2005. Label the view column as *flight*, *route*, *from_airport*, *to_airport*, *ddate*, *dtime*, *adate*, *atime* respectively.
2. Define a view *Airtype* that display the number of aircrafts for each of its type. Label the column as *craft_type*, *total*.
3. Create a view *Losangeles_Route* that contains Los Angeles in the route. Ensure that the view always contain/allows only information about the Los Angeles route.
4. Create a view named *Losangeles_Flight* on *Schedule_15* (as defined in 1) that display flight, departure (date, time), arrival (date, time) of flight(s) from Los Angeles.

Note: Notify the changes reflected in the base tables when you update through the view. Use the following format to record the view behavior:

View 1 : (testview)

Observation / Operation	Operation on View	Reflection in Base Table
INSERT	√	√
UPDATE	attr1, attr3	attr1, attr3
DELETE	√	√

RESULT : The View 1 is a updatable-join view

General Guidelines

i)Place a tick [√] mark if the operation is successful through the view/base table

OR reflected in view/base table.

ii) Place a cross [X] mark, if the operation is not allowed through view/base table

OR is not reflected in view/base table.

iii) For Insert/Update operation, only if some (or subset) of attributes are permitted, mention those attributes in the corresponding column.

Classify the views as follows:

i) updatable /updatable join view – views whose rows can be modified

ii) insertable-into view – views into which only new rows can be inserted

What you have to submit:

1. Schema Diagram with constraints
2. Demo script file

