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| ***CS8481 – DBMS Lab Assigned: 04­Apr­22 Assignment – 4 Due: 1 Lab Hour*** | | |
| ***Title: Views*** | | |



Aim:

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

Consider the schema used in the Assignment­3.

Create the following ***views*** and perform DML operations on it. Classify whether the view is *updatable or not*.

1. Create a view named **Blue\_Flavor,** which display the product details (product id, food, price) of Blueberry flavor.
2. Create a view named **Cheap\_Food,** which display the details (product id, flavor, food, price) of products with price lesser than $1. Ensure that, the price of these food(s) should never rise above $1 through view.
3. Create a view called **Hot\_Food** that show the product id and its quantity where the same product is ordered more than once in the same receipt.
4. Create a view named **Pie\_Food** that will display the details (customer lname, flavor, receipt number and date, ordinal) who had ordered the Pie food with receipt details.
5. Create a view **Cheap\_View** from **Cheap\_Food** that shows only the product id, flavor and food.
6. Drop the view Cheap\_View

*Note:* Notify the changes reflected in the base tables when you update through the view. Usethe 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 updatable­join view

General Guidelines

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

OR reflected in view/base table.

1. Place a cross [X] mark, if the operation is not allowed through view/base table OR is not reflected in view/base table.
2. 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:

* 1. updatable /updatable join view – views whose rows can be modified
  2. insertable­into view – views into which only new rows can be inserted
  3. To view the meta­data of views: USER\_VIEWS, USER\_UPDATABLE\_COLUMNS

What you have to submit:

1. Schema Diagram with constraints
2. Demo script file