# Assignment 3 DBMS LAB IT552

# Aditya Badayalya

510819056

Fifth Semester

Information Technology (HY)

Q1. Create a view using a single table. Perform insert, delete and update operations.

create table Customer (

C\_id varchar(10) primary key,

F name varchar(10) not null,

L\_name varchar(10),

City varchar(10)

);

-- view

create view v1 as

select C id, L name

from Customer;

table contents

	C_id	F_name	L_name	City
١	C1	Steve	Rogers	Brooklyn
	C2	Tony	Stark	Malibu
	C3	Peter	Parker	Queens
	C4	Bruce	Wayne	Gotham
	C5	Clark	Kent	Metropolis

### View

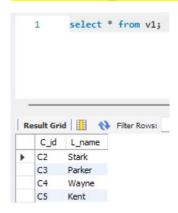
	C_id	L_name
١	C1	Rogers
	C2	Stark
	C3	Parker
	C4	Wayne
	C5	Kent

# Insert

insert into v1 (C\_id) values ('C8');

this insert operation does not take place as the column 'F\_name' in the customer table has a not null condition so even if the column 'C\_id' is the primary key and the column 'L name' can have a null value, the insert

operation does not take place as there is no default value for the 'F name' column

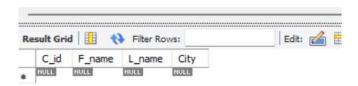


### Delete

delete from v1 where C id='C1';

this delete operation takes place as the primary key column 'C\_id' is directly involved in the view v1 and therefore the entire row can be removed from the table as opposed to partial deletion that would take place if the primary had not been involved directly in the view.

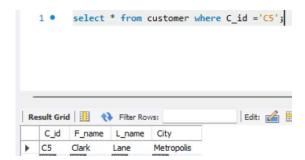
```
select * from customer where C_id = 'C1';
```



### Update

```
update v1 set L_name = 'Lane' where C_id = 'C5';
```

this update operation takes place as the update operation is being performed in the view that is made up of a single table and thus it is feasible to perform the updates. Also the update is performed on the column which is not the primary key



Q2. Create a view using multiple tables. Perform insert, delete and update operations.

create table Customer (

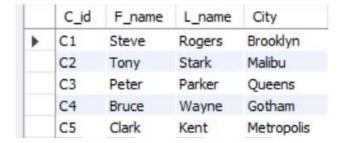
C\_id varchar(10) primary key,

F name varchar(10) not null,

L\_name varchar(10),

City varchar(10)

);



create table Students (

Id varchar(10) primary key,

F\_name varchar(10) not null,

L\_name varchar(10),

City varchar(10)

);

Id	F_name	L_name	City	
S1	Flash	Thompson	Queens	
S2	Ava	Ayala	Brooklyn	
S3	Barbara	Gordon	Gotham	
54	Michelle	Jones	Brooklyn	

View

create view v2 as

select customer.c\_id as 'Customer\_ID', customer.F\_name as
'Customer Name',

students.id as 'Student\_ID', students.F\_name as
'Student\_Name', customer.city as 'City'

from customer, students where customer.city =
students.city;

Customer_ID	Customer_Name	Student_ID	Student_Name	City
C1	Steve	54	Michelle	Brooklyn
C1	Steve	52	Ava	Brooklyn
C3	Peter	S1	Flash	Queens
C4	Bruce	S3	Barbara	Gotham

# Insert

insert into v2 (Customer\_ID, Customer\_Name, Student\_ID,
Student\_Name,City) values
('C7','Barton','S5','Neville','London');

the above operation does not take place as the view comprises of two tables 'Customer' and 'Students'. More than one table can not be modified through a join view of the tables

### Delete

delete from v2 where Customer\_ID ='C!';

the above operation does not take place as the view comprises of two tables 'Customer' and 'Students'. The delete operation can not be performed on the view comprising of the join of two tables

### Update

update v2 set Customer\_Name = 'Sevrus' where Customer\_ID =
'C1';

the above update operation takes place as it is performed on a single base table despite of the view consisting of two tables joined together

