**HANDSON – Views (Triggers posted in slides)**

**Example 1:** Write a view that returns all columns (without duplicating column names) and all rows from the join of **PROFESSOR**, **TEACH** and **COURSE** tables.

CREATE VIEW **professorDetails** AS  
SELECT p.\*, th.CourseNum,th.DeptName , c.CourseName, c.ClassRoom, c.Enrollment   
FROM **PROFESSOR** p, **TEACH** th, **COURSE** c   
WHERE p.pid = th.pid and th.CourseNum = c.CourseNum;

DROP VIEW **professorDetails**;

**Example 2:** Write a view that returns all attributes/columns from the join of the **professorDetails** view and **DEPARTMENTS** tables.

CREATE VIEW professorChair AS   
 SELECT pd.\*, d.ChairmanID  
 FROM professorDetails pd, DEPARTMENT d  
 WHERE pd.DeptName = d.DeptName;

**Example 3:** Create an **UPDATABLE** view that returns all rows and only the **SID** and **GRADE** columns from the **TAKE** table.

CREATE VIEW **takeGrade** AS   
 SELECT sid, grade  
 FROM **TAKE**;

SELECT \* FROM StudentdbW22.takegrade;

UPDATE StudentdbW22.takegrade

set grade=4.00 where sid='S001';

**Example 4:** Alter the view above to make it **NON-UPDATABLE.**

ALTER VIEW **takeGrade** AS  
 SELECT **DISTINCT** sid, grade   
 FROM **TAKE**;

**Example 5:** Create a view that returns all rows from the **PROFESSORS** table and 2 columns, the **name** renamed as **Pname** and **office** renamed as **RoomNumber**.

CREATE VIEW **professorsOffice (Pname, RoomNumber)** AS   
 SELECT name, office FROM **PROFESSORS**;