CREATE VIEW QualityViolationInQuarter3 AS

SELECT E.Quality, P.Quality, U.Quality

From `EPA Violation` E, `Point Violation` P, `Utility Violation` U, Violation V

Where V.Quarter = 3 AND V.ViolationID = E.ViolationID AND V.ViolationID = P.ViolationID AND V.ViolationID = U.ViolationID

Create Trigger UpdateViolation

Before INSERT ON `EPA Violation`

FOR EACH ROW

BEGIN

INSERT INTO Violation VALUES (NEW.`PWSID`, NULL, NULL, NEW.`Violation ID`);

END;

/see the quality of the chemical violations/

SELECT E.Quality, P.Quality, U.Quality

From `EPA Violation` E, `Point Violation` P, `Utility Violation` U, Violation V

Where V.Type = “Chemical” AND V.ViolationID = E.ViolationID AND V.ViolationID = P.ViolationID AND V.ViolationID = U.ViolationID

/get the YEAR and PWSIDs for point violations where 2 or more violations in a year/

SELECT ViolationID, PWSIDs, YEAR

FROM Violation JOIN `Point Violation` USING (PWSID, ViolationID)

GROUP BY Year

Having COUNT (\*) > 1;

/get the number of bacteria violations in year 2005/

SELECT COUNT (Type)

From Violation

WHERE Type = “bacteria” and Year = 2005