Finals Task 5.

Using SQL views and Stored Procedures   
 and Stored Functions

**Instructions:**

1. To have an idea of how SQL views work, kindly read the lecture on SQL views and stored procedures, then you may try the following examples in MySQL Workbench:

2. Start Xampp and MySQL Workbench – create or start a connection

4. Open the democodes.sql, and you may try executing all the examples using the hrd.sql file

5. AFTER the practice codes…. Perform the required SQL statements of the ff: use inventory.sql for this.

6. Print screen the appropriate sql and output per item

1. CREATE A VIEW that will display the vendors\_code, vendors name, product description p\_indate, of all products with p\_indate from 2002 onwards
2. CREATE a VIEW that will display all products whose price range is between 100-150
3. Create a VIEW that will COMPUTE for the (TOTAL\_PRICE) of ALL PRODUCTS by getting the (P\_ONHAND x P\_PRICE) Sold by vendors with the following v\_code (21344, 23119 and 24288)
4. CREATE a STORED PROCEDURE that WILL take a SINGLE PARAMETER and UPDATED the Name of Vendor ‘Bryson,Inc.’ to ‘Bryson and Co’.
5. CREATE A Function that will take 2 parameters(v\_code and v\_state) and display All the product description and price based on the parameters passed to the function

CREATE DATABASE inventory;

USE inventory;

CREATE TABLE Products (

P\_CODE VARCHAR(10) PRIMARY KEY,

P\_DESCRIPT VARCHAR(35) NOT NULL,

P\_INDATE DATE NOT NULL,

P\_ONHAND INT NOT NULL,

P\_MIN INT NOT NULL,

P\_PRICE DECIMAL(8,2) NOT NULL,

P\_DISCOUNT DECIMAL(5,2) NOT NULL,

V\_CODE INT

);

CREATE TABLE vendorsACode (

V\_AREACODE INT PRIMARY KEY,

V\_AREACODENAME VARCHAR(15) NOT NULL

);

CREATE TABLE vendors (

V\_CODE INT PRIMARY KEY,

V\_NAME VARCHAR(30) NOT NULL,

V\_CONTACT VARCHAR(30) NOT NULL,

V\_AREACODE INT,

V\_PHONE VARCHAR(12) NOT NULL,

V\_STATE VARCHAR(3) NOT NULL,

V\_ORDER VARCHAR(1)

);

ALTER TABLE Products

ADD CONSTRAINT FK\_VCode

FOREIGN KEY (V\_CODE) REFERENCES vendors(V\_CODE)

ON UPDATE CASCADE

ON DELETE NO ACTION;

ALTER TABLE vendors

ADD CONSTRAINT FK\_VAreaCode

FOREIGN KEY (V\_AREACODE) REFERENCES vendorsACode(V\_AREACODE)

ON UPDATE CASCADE

ON DELETE NO ACTION;

ALTER TABLE vendors

ADD CONSTRAINT CHK\_VORDER CHECK (V\_ORDER in ('Y', 'N'));

ALTER TABLE vendorsACode

ADD CONSTRAINT UC\_AREACODENAME UNIQUE (V\_AREACODENAME);

INSERT INTO vendorsACode VALUES (615, 'AC'),

(904, 'SF'),

(901, 'MAG');

INSERT INTO vendors VALUES

(21225, 'Bryson,Inc.', 'Smithson', 615, '223-3234', 'TN', 'Y'),

(21226, 'SuperLoo,Inc.', 'Flushing', 904, '215-8995', 'FL', 'N'),

(21227, 'Bryson,Inc.', 'RASEL', 615, '223-3235', 'TN', 'Y'),

(21231, 'D&E Supply', 'Singh', 615, '228-3245', 'TN', 'Y'),

(21344, 'Gomez Bros.', 'Ortega', 615, '889-2546', 'KY', 'N'),

(22567, 'Dome Supply', 'Smith', 901, '678-1419', 'GA', 'N'),

(23119, 'Randsets Ltd.', 'Anderson', 901, '678-3998', 'GA', 'Y'),

(24004, 'Brackman', 'Browning', 615, '228-1410', 'TN', 'N'),

(24288, 'ORDVA,Inc.', 'Hakford', 615, '898-1234', 'TN', 'Y'),

(25443, 'B&K Inc.', 'Smith', 904, '227-0093', 'FL', 'N'),

(25501, 'Damal Supplies', 'Smythe', 615, '890-3529', 'TN', 'N'),

(25595, 'Rubicon Sis.', 'Orton', 904, '456-0092', 'FL', 'Y');

INSERT INTO Products VALUES

('111111', 'PAKO', '2002-01-17', 10, 2, '100.00', '0.00', 21227),

('11QER/31', 'SHAMOO', '2001-12-03', 8, 5, '109.99', '0.00', 25595),

('13-Q2/P2', '7.25-in pwr,saw blade', '2002-01-13', 32, 15, '14.99', '0.05', 21344),

('14-Q1/L3', '9.00-in pwr, saw blade', '2002-01-13', 18, 12, '17.49', '0.00', 21344),

('1546-qq2', 'Hrd. cloth,1/4-in.2x50', '2001-12-15', 15, 8, '39.95', '0.00', 23119),

('1558-QW1', 'Hrd. cloth, 1/2-in., 3x50', '2002-01-15', 23, 5, '43.99', '0.00', 23119),

('2232/QTY', 'B&D Jigsaw, 12-in. blade', '2001-12-30', 8, 5, '109.92', '0.05', 24288),

('2232/QWE', 'B&D Jigsaw, 8-in. blade', '2002-01-24', 6, 5, '99.87', '0.05', 24288),

('2238/QPD', 'B&D Cordless Drill,12-in. blade', '2001-11-20', 12, 5, '38.95', '0.05', 25595),

('23109-HB', 'Claw Hammer', '2002-01-20', 23, 10, '5.95', '0.10', 21225),

('54778-2T', 'Rat tail-file, 1/8-in fine', '2002-01-15', 43, 20, '4.99', '0.00', 21344),

('89-WRE-Q', 'Hitcut chain saw, 16in.', '2001-12-07', 11, 5, '256.99', '0.05', 24288),

('SM-18277', '1.25-in. metal screw, 50', '2001-12-29', 172, 75, '6.99', '0.00', 21225),

('SW-23116', '2.5-in. wd.screw, 50', '2001-12-24', 237, 100, '8.45', '0.00', 21231),

('WR3/TT3', 'Steel Matting', '2001-01-17', 18, 5, '119.95', '0.10', 25595);

SELECT \* FROM products;

CREATE VIEW Productnames AS

SELECT p.P\_DESCRIPT AS ProductName, v.V\_NAME AS VendorName, p.P\_INDATE

FROM Products p

JOIN vendors v ON p.V\_CODE = v.V\_CODE

WHERE p.P\_INDATE >= '2001-01-01';

CREATE VIEW Productrange AS

SELECT \*

FROM products

WHERE p\_price BETWEEN 100 AND 150;

SELECT \* FROM products;

CREATE VIEW total\_price AS

SELECT P\_CODE, P\_DESCRIPT, P\_ONHAND, P\_PRICE, V\_CODE, (P\_ONHAND \* P\_PRICE) AS TOTAL\_PRICE

FROM products

WHERE V\_CODE IN (21344, 23119, 24288);

SELECT \* FROM total\_price;

DELIMITER //

CREATE PROCEDURE update\_vendor\_name()

BEGIN

UPDATE vendors

SET VENDORS\_NAME = 'Bryson and Co'

WHERE VENDORS\_NAME = 'Bryson,Inc.';

END //

DELIMITER ;

SELECT \* FROM vendors;

DELIMITER //

CREATE FUNCTION get\_products\_by\_vendor(v\_code INT, v\_state VARCHAR(50))

RETURNS TEXT DETERMINISTIC

BEGIN

DECLARE prodList TEXT;

SELECT GROUP\_CONCAT(CONCAT(P\_DESCRIPT, ' ($', P\_PRICE, ')') SEPARATOR '; ')

INTO prodList

FROM products p

JOIN vendors v ON p.V\_CODE = v.VENDORS\_CODE

WHERE v.VENDORS\_CODE = v\_code

AND v.V\_STATE = v\_state;

RETURN prodList;

END //

DELIMITER ;