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**SE(4A) | 19F-0916**

Database Course

Assignment # 4 SQL QUERIES

**Question # 01**

**Main Table**

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**PART 1**

**Graphical user interface, text, application, email

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**PART 2**

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**PART 3**

**Graphical user interface, text, application

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**PART 4**

**Graphical user interface, text, application

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**PART 5 (00 DISCOUNT)**

**Graphical user interface, text, application

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**PART 5 (.05 DISCOUNT)**

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**TOTAL QUERIES:**

CREATE TABLE P (

P\_CODE CHAR(10) PRIMARY KEY,

P\_DESCRIPT CHAR(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(4,2) NOT NULL,

V\_CODE INT);

INSERT INTO P VALUES('11QER/31','Power painter, 15 psi., 3-nozzle' ,'03-NOV-2003', 8, 5,109.99,0.00,25595);

INSERT INTO P VALUES('13-Q2/P2','7.25-in. pwr. saw blade' ,'13-DEC-2003', 32, 15, 14.99,0.05,21344);

INSERT INTO P VALUES('14-Q1/L3','9.00-in. pwr. saw blade' ,'13-NOV-2003', 18, 12, 17.49,0.00,21344);

INSERT INTO P VALUES('1546-QQ2','Hrd. cloth, 1/4-in., 2x50' ,'15-JAN-2004', 15, 8, 39.95,0.00,23119);

INSERT INTO P VALUES('1558-QW1','Hrd. cloth, 1/2-in., 3x50' ,'15-JAN-2004', 23, 5, 43.99,0.00,23119);

INSERT INTO P VALUES('2232/QTY','B\&D jigsaw, 12-in. blade' ,'30-DEC-2003', 8, 5,109.92,0.05,24288);

INSERT INTO P VALUES('2232/QWE','B\&D jigsaw, 8-in. blade' ,'24-DEC-2003', 6, 5, 99.87,0.05,24288);

INSERT INTO P VALUES('2238/QPD','B\&D cordless drill, 1/2-in.' ,'20-JAN-2004', 12, 5, 38.95,0.05,25595);

INSERT INTO P VALUES('23109-HB','Claw hammer' ,'20-JAN-2004', 23, 10, 9.95,0.10,21225);

INSERT INTO P VALUES('23114-AA','Sledge hammer, 12 lb.' ,'02-JAN-2004', 8, 5, 14.40,0.05,NULL);

INSERT INTO P VALUES('54778-2T','Rat-tail file, 1/8-in. fine' ,'15-DEC-2003', 43, 20, 4.99,0.00,21344);

INSERT INTO P VALUES('89-WRE-Q','Hicut chain saw, 16 in.' ,'07-FEB-2004', 11, 5,256.99,0.05,24288);

INSERT INTO P VALUES('PVC23DRT','PVC pipe, 3.5-in., 8-ft' ,'20-FEB-2004',188, 75, 5.87,0.00,NULL);

INSERT INTO P VALUES('SM-18277','1.25-in. metal screw, 25' ,'01-MAR-2004',172, 75, 6.99,0.00,21225);

INSERT INTO P VALUES('SW-23116','2.5-in. wd. screw, 50' ,'24-FEB-2004',237,100, 8.45,0.00,21231);

INSERT INTO P VALUES('WR3/TT3' ,'Steel matting, 4''x8''x1/6", .5" mesh','17-JAN-2004', 18, 5,119.95,0.10,25595);

/\* QUESTION # 1 SQL QUERIES \*/

/\* 1: Retrieve the average quantity on hand along with vendor code amongst those products that has the vendor code ‘21344’. \*/

Select V\_CODE, AVG(P\_ONHAND) as Average\_Quantity\_on\_Hand

From P

Where V\_CODE = '21344'

Group by V\_CODE

/\* 2: Retrieve the minimum price along with vendor code amongst those products that has no vendor \*/

Select V\_CODE , Min(P\_Price) as Minimum\_Price\_Without\_Vendor

From P

Where V\_CODE IS NULL

Group By V\_CODE

/\* 3: Retrieve the maximum price amongst the products that has a vendor. \*/

Select Max(P\_Price) as Maximum\_Price\_With\_Vendor

From P

Where V\_CODE IS NOT NULL

/\* 4: Retrieve the average price of the products that has no discount. \*/

Select P\_CODE, AVG(P\_PRICE) as Average\_Price

From P

Where P\_DISCOUNT = '00'

Group By P\_CODE

/\* 5: How many products have the discount .05 and how many have discount 0. \*/

Select Count(P\_CODE) as Products\_With\_00\_Discount

From P

Where P\_DISCOUNT = '00'

Select Count(P\_CODE) as Products\_With\_05\_Discount

From P

Where P\_DISCOUNT = '0.05'

**Question # 02**

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**P.S**

**For Some Queries, Help is taken from internet.**

**As Position and RowNumber are not taught to us yet but I’ve taken these concepts from internet to sort out the queries.**

**Although Last query from question 2 can simply be performed by taking mod of WorkerId but I’ve Tried to perform it in generic order for any table doesn’t matter either Id is numeric or alpha numeric**

**It makes a table in From Clause with additional Row Number Column which helps in taking mod of the required Row Number in order to get Odd number Rows.**

**REGARDS!**