Les06c-Multiple-Column Sub Queries practice

Another practice question to look at

Subqueries can return multiple columns. The starting example is a little bit wasteful other than to demonstrate more than one column can be returned. By using an uncomplicated example first there will be less problems to resolve.

**SELECT Last\_name, first\_name, salary**

**FROM employees**

**WHERE (last\_name, first\_name, salary) IN**

**(SELECT Last\_name, first\_name, salary**

**FROM employees);**

The result are 21 rows, the same as in the employees table.

Now to make it a little more complex.

Display product number, product type, product name and product selling price for the lowest price product for a product type

1 Need to find the lowest price for each product type.

2 Then display what the user requested. (lowest price product)

3 Order by product\_type

Try figuring it out before going to the next page

**SELECT prod\_no, prod\_type, prod\_name, prod\_sell**

Step 2

**FROM products**

**WHERE (prod\_type, prod\_sell) IN**

Step 1

**(SELECT prod\_type, min(prod\_sell)**

**FROM products**

**GROUP BY prod\_type)**

Step 3

**ORDER BY prod\_type**;

PROD\_NO PROD\_TYPE PROD\_NAME PROD\_SELL

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60100 Alert Devices Pocket U.V. Alerter 9

40300 Back Packs Day Tripper 14

60302 Bio-Friendly Soaps RiverKind Detergent 6

50100 Carry-Bags GO Sport Bag 28

40403 Cooking Equipment GO Camp Kettle 21

60200 Recycled Products EnviroSak 6

40202 Sleeping Bags MoonLite 84

50203 Sport Wear GO Water Bottle 8

50202 Sport Wear GO Wristband 8

60400 Sunblock Sun Shelter-8 6

40100 Tents Star Lite 165

60500 Water Purifiers Pro-Lite Water Filter 165

12 rows selected

ASIDE:

Can you do it without the subquery? It looks like it, but you might get 35 rows because ….?

Something like this seems like the answer

SELECT prod\_no, prod\_type, prod\_name, min(prod\_sell)

FROM products

GROUP BY prod\_no, prod\_type, prod\_name

ORDER BY prod\_type;