University of Johannesburg
Academy of Computer Science & Software Engineering
IFM2A10: Informatics 2A – Database Design
Practical Assignment 2 (Due: 23 February 2016 @ 12h30)

Assignment

Tires R' Us is a tire wholesaler company. They have recently been trying to get more information on their stock. In order to do this, they started an Excel spreadsheet containing the information below:

Code	Manufacturer	Type	Width	Ratio	Diameter	Quantity	Price
P215/45R17_P	Pirelli	Passenger	215	45	17	265	R 1799.95
P225/65R18_M	Michelin	Passenger	225	65	18	203	R 1299.95
LT235/85R16_B	Bridgestone	Light Truck	235	85	16	105	R 1599.95
LT245/75R16_D	Dunlop	Light Truck	245	75	16	73	R 1149.95
P265/75R15_P	Pirelli	Passenger	265	5	15	54	R 1499.95
P215/65R15_Y	Yokohama	Passenger	215	65	15	38	R 949.95
ST225/75R15_V	Velocity	Special Trailer	225	75	15	300	R 699.95
P225/50R16_Y	Yokohama	Passenger	225	50	16	400	R 1199.95

Complete and **save** the following **SQL queries**:

A. Create this table in MS Access 2013. Name the table "TIRES", and create all the necessary fields (select appropriate data types). Name this query "**A**".
B. Add all EIGHT records into the table. (Name these queries "**B1**", "**B2**", "**B3**", etc.)
C. List all tire entries where the tire width is 215. Name this query "**C**".
D. List all Tire Codes, Manufacturer names and tire type, for each tire where the price is below R 1500. Name this query "**D**".
E. List all tire entries and order them as follows:
    a. By how many of the tires are in stock, from fewest to most. Name this query "**E1**".
    b. By how much they cost, from most expensive to cheapest. Name this query "**E2**".
F. Increase the price of all 15" diameter tires by R200. Name this query "**F**".
G. List all tire entries where the Ratio value is between 50 and 75. Name this query "**G**".
H. Delete all tire entries manufactured by Yokohama. Name this query "**H**".

Instructions

- This solution must be implemented in Microsoft Access or equivalent.
- Name all queries according to their question number. For example:
  - Question A as "**A**"
  - Question B1 as "**B1**"
  - etc.
- Submission details are outlined in the General Undergraduate Learning Guide. Please ensure that the submission complies with the instructions therein.

Mark Allocation

Query A	10
Query B (B1 – B8)	8
Query C	4
Query D	4
Query E (E1 & E2)	10
Query F	4
Query G	5
Query H	5
Total	**50**
Penalties • Late submission [0%]	