CS6852 : Assignment 2 - Ontology Design



<u>Group – 05</u>

<u>Domain – Restaurant Management</u>

XQueries and Xpaths

Submitted To Prof. P Sreenivasa Kumar

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XQueries:

Q1: Find the total orders amount in the restaurant on 24 March 2022

let \$c := sum(for \$v in //Customer where \$v//Date[Day="24" and Month="March" and Year="2022"] return \$v//Order/Amount) return \$c

Result: 1902

Q2 :List all the Beverage Cost above 25

for \$a in //MenuCard//Item
where \$a/Price>25 and count(\$x/Beverage)>0
order by \$a/Price
return \$a/Beverage

Results:

- <Beverage>Thumps Up</Beverage>
- <Beverage>Coke</Beverage>
- <Beverage>Chocolate Shake/Beverage>
- <Beverage>Hot Chocolate</Beverage>
- <Beverage>Milk</Beverage>
- <Beverage>Strawberry Shake</Beverage>

Q3: List all the Customer name and amount with Quarterly subscription

for \$c in //Customer[Subscription[Details="Quarterly"] return (\$c/Name,\$c/Price)

Result:

- <Name>Rajesh Kumar</Name>
- <Price>300</Price>
- <Name>Mukesh Kumar</Name>
- <Price>300</Price>
- <Name>Karan Jaiswal</Name>
- <Price>300</Price>
- <Name>Goutam Sharma</Name>
- <Price>300</Price>
- <Name>Soumya Kanth</Name>
- <Price>300</Price>
- <Name>Ritesh Rane</Name>
- <Price>300</Price>
- <Name>Divya Rani</Name>
- <Price>300</Price>
- <Name>Vishal Rawat</Name>
- <Price>300</Price>

<Name>Pranay Bahekar</Name> <Price>300</Price> <Name>Pranay Chuttar</Name> <Price>300</Price> <Name>Pranay Mahajan</Name> <Price>300</Price> <Name>Nitin Dada</Name>

<Price>300</Price>

<Name>Bhagwat Shukla</Name>

<Price>300</Price>

Q4: Get the average price of starter items for \$m in //Menucard let \$c := \$m/Starter return avg(\$c/*/price)

Result: 115.71428571428571

XPaths:

 /Restaurant/Branch/MenuCard/*/*/Beverage Result:

All the beverage items in the menucard

```
Element='<Food>Chilli Paneer</Food>'
Element='<Food>Paneer 65</Food>'
Element='<Food>Veg Manchurian</Food>'
Element='<Food>Veg Lollipop</Food>'
Element='<Food>Chilli Potato</Food>'
Element='<Food>Chicken Manchurian</Food>'
Element='<Food>Gobi Manchurian</Food>'
```

/Restaurant/Branch/MenuCard/Starter/Item/Food RESULTS:

All the fooditems in starter section of menucard

```
Element='<Beverage>Thumps Up</Beverage>'
Element='<Beverage>Coke</Beverage>'
Element='<Beverage>Chocolate Shake</Beverage>'
Element='<Beverage>Hot Chocolate</Beverage>'
Element='<Beverage>Milk</Beverage>'
Element='<Beverage>Strawberry Shake</Beverage>'
```

3. /Restaurant/Restaurateur Result: Restaurateur Details

 $4.\ / Restaurant/Branch/Staff/Supervisor/Name$

RESULTS: Names of all supervisors

```
<Name>Rupesh</Name>
<Name>Rhythm</Name>
<Name>Vansh</Name>
<Name>Nitin</Name>
<Name>Pranab
```

5. /Restaurant/Branch/Customer/Name[../Subscription/Details="Annual"] RESULTS: customer names with annual subscription

<Name>Irshad Khan</Name>
<Name>Rashmi Kumari</Name>
<Name>Saurabh Mahajan</Name>
<Name>Samay Raina</Name>