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XQUERY

1. **List of the names of vendors who are located in the state "Chennai".**

Query:

```
for $x in APPLICATION/ECOMMERCE/Vendor

where contains($x//City,"Chennai")

return $x/Name
```

Result of the above expression applied to the above HTML file:

```
1 "LG"
2
```

2. Description of the complaint which is being handled by the agent "HTR 123"

Query:

```
for $x in APPLICATION/ECOMMERCE/Customer/Complaint,
   $y in APPLICATION/ECOMMERCE/HelpLine
    where $x/ComplaintNumber=$y/ComplaintNumber and contains($y/Agent,"HTR 123")
    return $x/Description
```

Result of the above expression applied to the above HTML file:

```
1 "Product not working properly."
2
```

3. Name of customer who have 3 or more products in his cart.

Query:

```
for $x in APPLICATION/ECOMMERCE/Customer
let $y := $x//Cart/NumberofItems
where $y >=3
return $x//UserName
```

Result of the above expression applied to the above HTML file:

```
        "Yash"
        "Kumar"
```

4. List of all BillNumber whose total amount more than 10000

for $x in APPLICATION/ECOMMERCE/Customer/Order/Bill

let $y:= $x/Total

where $y>10000

return $x/BillNumber

Result of the above expression applied to the above HTML file:

```
"135"
"003"
```

XPATH

1. Print all the customer details who are using ecommerce application.

/APPLICATION/ECOMMERCE/CUSTOMER/*

Result of the above expression applied to the above HTML file:

```
        "Lavi"
        "Junwal"


        "Abhinandan Nagar"
        "205"
        "452010"
        "Indore"
        "Madhya Pradesh"


        "lavi123"
        "lavi123"

"Male"

        "20"
        "MAR"
        "1999"

"Yes"

        "15"

            "150"
            "Electronics"
            "Redmi Note 8"
            16000

                "Average"
```

2. It returns sequence of firstName, street and login id (//FirstName,//Street,//LoginId)

XPath result:

```
Element='<FirstName>"Lavi"</FirstName>'
Element='<FirstName>"Radhe"</FirstName>'
Element='<FirstName>"Yash"</FirstName>'
Element='<Street>"Abhinandan Nagar"</Street>'
Element='<Street>"Velacheri Road"</Street>'
Element='<Street>"MGM Road"</Street>'
Element='<Street>"MGM Road"</Street>'
Element='<Street>"VR road"</Street>'
Element='<Street>"VR road"</Street>'
Element='<Street>"MG Road"</Street>'
Element='<Street>"Ramer Road"</Street>'
Element='<LoginId>"lavi123"</LoginId>'
Element='<LoginId>"rad123"</LoginId>'
Element='<LoginId>"bcde"</LoginId>'
```

3.It will return all the product id of an order.

for $c in //Order/Product return $c/ProductID

XPath result:

```
Element='<ProductID>"150"</ProductID>'
Element='<ProductID>"170"</ProductID>'
Element='<ProductID>"784"</ProductID>'
Element='<ProductID>"101"</ProductID>'
```