

## Problem Statement:-

Consider the Restaurant domain from Assignment 1 and create a DTD that can be used to structure data in the domain. Also, populate with data and write a brief description about the design of the DTD

## Document Type Description

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE Restaurant [
<!ELEMENT Restaurant (Name, Restaurateur, Branch+)>
<!ELEMENT Restaurateur (Name, Contact) >
<!ELEMENT Branch (Address, MenuCard, Staff, Customer*, Table+, Area,
Expenditure, Contact)>
<!ELEMENT Address (Street, City, Pin, State, Country)>
<!ELEMENT Street (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT Pin (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Country (#PCDATA)>

<!ELEMENT MenuCard (Starter,MainCourse,Dessert)>
<!ELEMENT Starter (Item+)>
<!ELEMENT MainCourse (Item+)>
<!ELEMENT Dessert (Item+)>

<!ELEMENT Item ((Food|Beverage), Price, Origin?)>
<!ATTLIST Item Id ID #REQUIRED>
<!ELEMENT Food (#PCDATA)>
<!ELEMENT Beverage (#PCDATA)>
<!ELEMENT Origin (#PCDATA)>

<!ELEMENT Staff
(Manager+,Supervisor+,Chef+,Cashier+,Waiter+,Janitor+)>
<!ELEMENT Manager (Name, Salary, Contact)>
<!ELEMENT Supervisor (Name, Salary, Contact, ReportsTo)>
<!ELEMENT Chef (Name, WorksAt, Salary, Contact, ReportsTo)>
<!ELEMENT Cashier (Name, WorksAt, Salary, Contact, ReportsTo)>
<!ELEMENT Waiter (Name, WorksAt, Salary, Contact, ReportsTo*)>
<!ELEMENT Janitor (Name, WorksAt, Salary, Contact, ReportsTo*)>
<!ATTLIST Manager Id ID #REQUIRED>
<!ATTLIST Chef Id ID #REQUIRED>
<!ATTLIST Supervisor Id ID #REQUIRED>
```

```

<!ATTLIST Cashier Id ID #REQUIRED>
<!ATTLIST Waiter Id ID #REQUIRED>
<!ATTLIST Janitor Id ID #REQUIRED>
<!ELEMENT WorksAt EMPTY>
<!ATTLIST WorksAt areaId IDREF #REQUIRED>
<!ELEMENT Salary (#PCDATA)>
<!ELEMENT Contact (PhoneNo*, Email*)>
<!ELEMENT ReportsTo EMPTY>
<!ATTLIST ReportsTo staffId IDREF #REQUIRED>

<!ELEMENT Customer (Name, Contact?, Subscription?, Order)>
<!ATTLIST Customer Id ID #REQUIRED>
<!ELEMENT Subscription (Date, Duration, Details, Price)>
<!ELEMENT Duration (#PCDATA)>
<!ELEMENT Details (#PCDATA)>
<!ELEMENT Price (#PCDATA)>

<!ELEMENT Order (OrderedBy, Date, TableNo, OrderItem+, ServedBy, Amount)>
<!ATTLIST Order OrderNo ID #REQUIRED>
<!ELEMENT OrderedBy EMPTY>
<!ATTLIST OrderedBy customerId IDREF #REQUIRED>
<!ELEMENT Date (Day, Month, Year)>
<!ELEMENT Day (#PCDATA)>
<!ELEMENT Month (#PCDATA)>
<!ELEMENT Year (#PCDATA)>
<!ELEMENT TableNo EMPTY>
<!ATTLIST TableNo tableId IDREF #REQUIRED>
<!ELEMENT OrderItem EMPTY>
<!ATTLIST OrderItem itemId IDREF #REQUIRED>
<!ELEMENT ServedBy EMPTY>
<!ATTLIST ServedBy waiterId IDREF #REQUIRED>
<!ELEMENT Amount (#PCDATA)>

<!ELEMENT Table (TableStatus)>
<!ATTLIST Table Id ID #REQUIRED>
<!ELEMENT TableStatus (#PCDATA)>

<!ELEMENT Expenditure (#PCDATA)>

<!ELEMENT Area
(Kitchen, BillingCounter, DiningArea, PartyHall+, RestRoom+, StorageRoom+)
>
<!ELEMENT Kitchen (SurfaceArea)>
<!ELEMENT BillingCounter (SurfaceArea)>

```

```

<!ELEMENT DiningArea (SurfaceArea)>
<!ELEMENT PartyHall (SurfaceArea, BookedBy?)>
<!ELEMENT RestRoom (SurfaceArea)>
<!ELEMENT StorageRoom (SurfaceArea)>
<!ATTLIST Kitchen Id ID #REQUIRED>
<!ATTLIST BillingCounter Id ID #REQUIRED>
<!ATTLIST DiningArea Id ID #REQUIRED>
<!ATTLIST PartyHall Id ID #REQUIRED>
<!ATTLIST RestRoom Id ID #REQUIRED>
<!ATTLIST StorageRoom Id ID #REQUIRED>
<!ELEMENT BookedBy EMPTY>
<!ATTLIST BookedBy customerId IDREF #REQUIRED>
<!ELEMENT SurfaceArea (#PCDATA)>

<!ELEMENT Name (#PCDATA)>
<!ELEMENT PhoneNo (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
]>

```

## XML Data

```

<Restaurant>
  <Name>Vijayalankar</Name>
  <Restaurateur>
    <Name>Virat Shetty</Name>
    <Contact>
      <PhoneNo>8888000022</PhoneNo>
      <Email>Virats@gmail.com</Email>
    </Contact>
  </Restaurateur>
  <Branch>
    <Address>
      <Street>Adyar Road</Street>
      <City>Chennai</City>
      <Pin>600015</Pin>
      <State>Tamil Nadu</State>
      <Country>India</Country>
    </Address>
    <MenuCard>
      <Starter>
        <Item Id = "I101">
          <Food>Chilli Paneer</Food>
          <Price>100</Price>

```

```
        <Origin>India</Origin>
    </Item>
    <Item Id = "I102">
        <Food>Paneer 65</Food>
        <Price>120</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I103">
        <Food>Veg Manchurian</Food>
        <Price>150</Price>
        <Origin>China</Origin>
    </Item>
    <Item Id = "I104">
        <Food>Veg Lollipop</Food>
        <Price>120</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I105">
        <Food>Chilli Potato</Food>
        <Price>90</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I106">
        <Food>Chicken Manchurian</Food>
        <Price>120</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I107">
        <Food>Gobi Manchurian</Food>
        <Price>110</Price>
        <Origin>India</Origin>
    </Item>
</Starter>
<MainCourse>
    <Item Id = "I108">
        <Food>Hydrabadi Biryani</Food>
        <Price>140</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I109">
        <Food>Paneer Biryani</Food>
        <Price>140</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I110">
```

```
        <Food>Chicken Biryani</Food>
        <Price>170</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I111">
        <Food>Kashmiri Biryani</Food>
        <Price>170</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I112">
        <Food>Paneer Tikka Masala</Food>
        <Price>110</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I113">
        <Food>Butter Paneer Masala</Food>
        <Price>120</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I114">
        <Food>Kadhai Paneer</Food>
        <Price>120</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I115">
        <Food>Kashmiri Pulav</Food>
        <Price>120</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I116">
        <Food>Dal Khichadi</Food>
        <Price>150</Price>
        <Origin>India</Origin>
    </Item>
</MainCourse>
<Dessert>
    <Item Id = "I117">
        <Food>Gulab Jamun</Food>
        <Price>50</Price>
        <Origin>India</Origin>
    </Item>
    <Item Id = "I118">
        <Food>Ice Cream</Food>
        <Price>50</Price>
        <Origin>India</Origin>
```

```
</Item>
<Item Id = "I126">
    <Food>Brownie</Food>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I119">
    <Food>Ras Malai</Food>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I120">
    <Beverage>Thumps Up</Beverage>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I121">
    <Beverage>Coke</Beverage>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I122">
    <Beverage>Chocolate Shake</Beverage>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I123">
    <Beverage>Hot Chocolate</Beverage>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I124">
    <Beverage>Milk</Beverage>
    <Price>50</Price>
    <Origin>India</Origin>
</Item>
<Item Id = "I125">
    <Beverage>Strawberry Shake</Beverage>
    <Price>70</Price>
    <Origin>India</Origin>
</Item>
</Dessert>
</MenuCard>
<Staff>
<Manager Id="S001">
```

```
<Name>John</Name>
<Salary>50000</Salary>
<Contact>
  <PhoneNo>9123456789</PhoneNo>
  <Email>s002@gmail.com</Email>
</Contact>
</Manager>
<Manager Id="S002">
  <Name>Tushar</Name>
  <Salary>50000</Salary>
  <Contact>
    <PhoneNo>8123456789</PhoneNo>
    <Email>s002@gmail.com</Email>
  </Contact>
</Manager>

<Supervisor Id="S003">
  <Name>Rupesh</Name>
  <Salary>30000</Salary>
  <Contact>
    <PhoneNo>7123456789</PhoneNo>
    <Email>s003@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
</Supervisor>
<Supervisor Id="S004">
  <Name>Rhythm</Name>
  <Salary>30000</Salary>
  <Contact>
    <PhoneNo>7223456789</PhoneNo>
    <Email>s004@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
</Supervisor>
<Supervisor Id="S005">
  <Name>Vansh</Name>
  <Salary>30000</Salary>
  <Contact>
    <PhoneNo>7323456789</PhoneNo>
    <Email>s005@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S002"/>
</Supervisor>
<Supervisor Id="S006">
  <Name>Nitin</Name>
```

```
<Salary>30000</Salary>
<Contact>
  <PhoneNo>7623456789</PhoneNo>
  <Email>s006@gmail.com</Email>
</Contact>
<ReportsTo staffId="S002"/>
</Supervisor>
<Supervisor Id="S007">
  <Name>Pranab</Name>
  <Salary>30000</Salary>
  <Contact>
    <PhoneNo>6223456789</PhoneNo>
    <Email>s004@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S002"/>
</Supervisor>
```

```
<Chef Id="S008">
  <Name>Ajay</Name>
  <WorksAt areaId="A04"/>
  <Salary>25000</Salary>
  <Contact>
    <PhoneNo>9123498765</PhoneNo>
    <Email>s008@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
</Chef>
<Chef Id="S009">
  <Name>Shubham Rane</Name>
  <WorksAt areaId="A04"/>
  <Salary>25000</Salary>
  <Contact>
    <PhoneNo>9123568765</PhoneNo>
    <Email>s009@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S002"/>
</Chef>
```

```
<Cashier Id="S010">
  <Name>Amol </Name>
  <WorksAt areaId="A03"/>
  <Salary>20000</Salary>
```



```
<Contact>
  <PhoneNo>8998755744</PhoneNo>
  <Email>s010@gmail.com</Email>
</Contact>
  <ReportsTo staffId="S001"/>
</Cashier>
```

```
<Waiter Id="S011">
  <Name>Rakul</Name>
  <WorksAt areaId="A15"/>
  <Salary>18000</Salary>
  <Contact>
    <PhoneNo>8468755744</PhoneNo>
    <Email>s011@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
  <ReportsTo staffId="S003"/>
</Waiter>
```

```
<Waiter Id="S012">
  <Name>Rahul Sharma</Name>
  <WorksAt areaId="A15"/>
  <Salary>18000</Salary>
  <Contact>
    <PhoneNo>8434755744</PhoneNo>
    <Email>s012@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
  <ReportsTo staffId="S003"/>
</Waiter>
```

```
<Waiter Id="S013">
  <Name>Ramesh Dev</Name>
  <WorksAt areaId="A15"/>
  <Salary>18000</Salary>
  <Contact>
    <PhoneNo>8468755755</PhoneNo>
    <Email>s013@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
  <ReportsTo staffId="S003"/>
</Waiter>
```

```
<Waiter Id="S014">
  <Name>Shridhar Tambe</Name>
  <WorksAt areaId="A15"/>
  <Salary>18000</Salary>
```

```
<Contact>
  <PhoneNo>8468789744</PhoneNo>
  <Email>s014@gmail.com</Email>
</Contact>
<ReportsTo staffId="S001"/>
<ReportsTo staffId="S004"/>
</Waiter>
<Waiter Id="S015">
  <Name>Pravin Tambe</Name>
  <WorksAt areaId="A15"/>
  <Salary>19000</Salary>
  <Contact>
    <PhoneNo>8468789711</PhoneNo>
    <Email>s015@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
  <ReportsTo staffId="S004"/>
</Waiter>
<Waiter Id="S016">
  <Name>Manoj Kumar</Name>
  <WorksAt areaId="A15"/>
  <Salary>18000</Salary>
  <Contact>
    <PhoneNo>5648789744</PhoneNo>
    <Email>s016@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
  <ReportsTo staffId="S004"/>
</Waiter>
<Waiter Id="S017">
  <Name>Shridhar Gupta</Name>
  <WorksAt areaId="A15"/>
  <Salary>17000</Salary>
  <Contact>
    <PhoneNo>8568789744</PhoneNo>
    <Email>s017@gmail.com</Email>
  </Contact>
  <ReportsTo staffId="S001"/>
  <ReportsTo staffId="S005"/>
</Waiter>
<Waiter Id="S018">
  <Name>Manoj Tambe</Name>
  <WorksAt areaId="A15"/>
  <Salary>18000</Salary>
  <Contact>
```

```
        <PhoneNo>8400000001</PhoneNo>
        <Email>s018@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S001"/>
    <ReportsTo staffId="S005"/>
</Waiter>
<Waiter Id="S019">
    <Name>Ajay Rathod</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>8400000002</PhoneNo>
        <Email>s019@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S001"/>
    <ReportsTo staffId="S005"/>
</Waiter>
<Waiter Id="S020">
    <Name>Pratik Tiwari</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>8400000003</PhoneNo>
        <Email>s020@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S001"/>
    <ReportsTo staffId="S005"/>
</Waiter>
<Waiter Id="S021">
    <Name>Pradip Kumar</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>8400000004</PhoneNo>
        <Email>s021@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S002"/>
    <ReportsTo staffId="S006"/>
</Waiter>
<Waiter Id="S022">
    <Name>Pradip Patil</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>8400000005</PhoneNo>
```

```
        <Email>s022@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S002"/>
    <ReportsTo staffId="S006"/>
</Waiter>
<Waiter Id="S023">
    <Name>Shridhar Chaudhari</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>846878888</PhoneNo>
        <Email>s023@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S002"/>
    <ReportsTo staffId="S006"/>
</Waiter>
<Waiter Id="S024">
    <Name>Kuldeep Tambe</Name>
    <WorksAt areaId="A15"/>
    <Salary>18500</Salary>
    <Contact>
        <PhoneNo>777789744</PhoneNo>
        <Email>s024@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S002"/>
    <ReportsTo staffId="S006"/>
</Waiter>
<Waiter Id="S025">
    <Name>Akash Patil</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>8555789744</PhoneNo>
        <Email>s025@gmail.com</Email>
    </Contact>
    <ReportsTo staffId="S002"/>
    <ReportsTo staffId="S006"/>
</Waiter>
<Waiter Id="S026">
    <Name>Tushar kamat</Name>
    <WorksAt areaId="A15"/>
    <Salary>18000</Salary>
    <Contact>
        <PhoneNo>8468858744</PhoneNo>
        <Email>s026@gmail.com</Email>
```

```

        </Contact>
        <ReportsTo staffId="S002"/>
        <ReportsTo staffId="S007"/>
    </Waiter>
    <Waiter Id="S027">
        <Name>Kumar Dev</Name>
        <WorksAt areaId="A15"/>
        <Salary>18000</Salary>
        <Contact>
            <PhoneNo>5555589744</PhoneNo>
            <Email>s027@gmail.com</Email>
        </Contact>
        <ReportsTo staffId="S002"/>
        <ReportsTo staffId="S007"/>
    </Waiter>
    <Janitor Id="S028">
        <Name>Jayesh Ghorpade</Name>
        <WorksAt areaId="A04"/>
        <Salary>15000</Salary>
        <Contact>
            <PhoneNo>9856321478</PhoneNo>
            <Email>s028@gmail.com</Email>
        </Contact>
        <ReportsTo staffId="S001"/>
        <ReportsTo staffId="S005"/>
    </Janitor>
    <Janitor Id="S029">
        <Name>Shashikant Zine</Name>
        <WorksAt areaId="A04"/>
        <Salary>14000</Salary>
        <Contact>
            <PhoneNo>9874563202</PhoneNo>
            <Email>s029@gmail.com</Email>
        </Contact>
        <ReportsTo staffId="S001"/>
        <ReportsTo staffId="S006"/>
    </Janitor>
    <Janitor Id="S030">
        <Name>Suraj Shelke</Name>
        <WorksAt areaId="A15"/>
        <Salary>16000</Salary>
        <Contact>
            <PhoneNo>8569321478</PhoneNo>
            <Email>s030@gmail.com</Email>
        </Contact>

```

```
        <ReportsTo staffId="S001"/>
        <ReportsTo staffId="S006"/>
    </Janitor>
    <Janitor Id="S031">
        <Name>Tushar Unde</Name>
        <WorksAt areaId="A15"/>
        <Salary>16000</Salary>
        <Contact>
            <PhoneNo>7458963214</PhoneNo>
            <Email>s031@gmail.com</Email>
        </Contact>
        <ReportsTo staffId="S001"/>
        <ReportsTo staffId="S007"/>
    </Janitor>
    <Janitor Id="S032">
        <Name>Shubham Shingi</Name>
        <WorksAt areaId="A15"/>
        <Salary>16000</Salary>
        <Contact>
            <PhoneNo>8855226963</PhoneNo>
            <Email>s032@gmail.com</Email>
        </Contact>
        <ReportsTo staffId="S001"/>
        <ReportsTo staffId="S007"/>
    </Janitor>
</Staff>
<Customer Id = "C00001">
    <Name>Rajesh Kumar</Name>
    <Contact>
        <PhoneNo>7077253526</PhoneNo>
        <Email>rajkum@gmail.com</Email>
    </Contact>
    <Subscription>
        <Date>
            <Day>05</Day>
            <Month>March</Month>
            <Year>2022</Year>
        </Date>
        <Duration>90</Duration>
        <Details> Quarterly </Details>
        <Price>300</Price>
    </Subscription>
    <Order OrderNo = "D100001">
        <OrderedBy customerId = "C00001"/>
        <Date>
```

```

        <Day>20</Day>
        <Month>March</Month>
        <Year>2022</Year>
    </Date>
    <TableNo tableId = "T12"/>
    <OrderItem itemId = "I103" />
    <OrderItem itemId = "I120" />
    <OrderItem itemId = "I111" />
    <ServedBy waiterId = "S011" />
    <Amount>252</Amount>
</Order>
</Customer>

<Customer Id = "C00002">
    <Name>Ajay Kumar</Name>
    <Contact>
        <PhoneNo>7077254526</PhoneNo>
        <Email>ajakum@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100002">
        <OrderedBy customerId = "C00002"/>
        <Date>
            <Day>20</Day>
            <Month>March</Month>
            <Year>2022</Year>
        </Date>
        <TableNo tableId = "T07"/>
        <OrderItem itemId = "I113" />
        <OrderItem itemId = "I107" />
        <OrderItem itemId = "I106" />
        <ServedBy waiterId = "S012" />
        <Amount>153</Amount>
    </Order>
</Customer>

<Customer Id = "C00003">
    <Name>Mukesh Kumar</Name>
    <Contact>
        <PhoneNo>7077425963</PhoneNo>
        <Email>mukkum@gmail.com</Email>
    </Contact>
    <Subscription>
        <Date>
            <Day>01</Day>
            <Month>March</Month>

```

```
        <Year>2022</Year>
    </Date>
    <Duration>90</Duration>
    <Details> Quarterly </Details>
    <Price>300</Price>
</Subscription>
<Order OrderNo = "D100003">
    <OrderedBy customerId = "C00003"/>
    <Date>
        <Day>20</Day>
        <Month>March</Month>
        <Year>2022</Year>
    </Date>
    <TableNo tableId = "T02"/>
    <OrderItem itemId = "I107" />
    <OrderItem itemId = "I117" />
    <OrderItem itemId = "I120" />
    <ServedBy waiterId = "S013" />
    <Amount>100</Amount>
</Order>
</Customer>
```

```
<Customer Id = "C00004">
    <Name>Lavi Junwal</Name>
    <Contact>
        <PhoneNo>8010254526</PhoneNo>
        <Email>lavjun@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100004">
        <OrderedBy customerId = "C00004"/>
        <Date>
            <Day>20</Day>
            <Month>March</Month>
            <Year>2022</Year>
        </Date>
        <TableNo tableId = "T04"/>
        <OrderItem itemId = "I113" />
        <OrderItem itemId = "I122" />
        <OrderItem itemId = "I106" />
        <ServedBy waiterId = "S014" />
        <Amount>341</Amount>
    </Order>
</Customer>
```

```
<Customer Id = "C00005">
```



```
<Name>Karan Jaiswal</Name>
<Contact>
  <PhoneNo>7077127469</PhoneNo>
  <Email>karjai@gmail.com</Email>
</Contact>
<Subscription>
  <Date>
    <Day>01</Day>
    <Month>February</Month>
    <Year>2022</Year>
  </Date>
  <Duration>90</Duration>
  <Details> Quarterly </Details>
  <Price>300</Price>
</Subscription>
<Order OrderNo = "D100005">
  <OrderedBy customerId = "C00005"/>
  <Date>
    <Day>21</Day>
    <Month>March</Month>
    <Year>2022</Year>
  </Date>
  <TableNo tableId = "T01"/>
  <OrderItem itemId = "I103" />
  <OrderItem itemId = "I119" />
  <OrderItem itemId = "I101" />
  <ServedBy waiterId = "S014" />
  <Amount>286</Amount>
</Order>
</Customer>

<Customer Id = "C00006">
  <Name>Ankit Gope</Name>
  <Contact>
    <PhoneNo>8120365956</PhoneNo>
    <Email>ankgop@gmail.com</Email>
  </Contact>
  <Order OrderNo = "D100006">
    <OrderedBy customerId = "C00006"/>
    <Date>
      <Day>21</Day>
      <Month>March</Month>
      <Year>2022</Year>
    </Date>
    <TableNo tableId = "T08"/>
```

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        <OrderItem itemId = "I112" />
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        <Amount>190</Amount>
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</Customer>

<Customer Id = "C00007">
    <Name>Irshad Khan</Name>
    <Contact>
        <PhoneNo>7412365256</PhoneNo>
        <Email>irskha@gmail.com</Email>
    </Contact>
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        <OrderItem itemId = "I118" />
        <ServedBy waiterId = "S015" />
        <Amount>460</Amount>
    </Order>
</Customer>

<Customer Id = "C00008">
    <Name>Lalit Yadav</Name>
    <Contact>
        <PhoneNo>8010147963</PhoneNo>

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        <Email>lalyad@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100008">
        <OrderedBy customerId = "C00008"/>
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        <OrderItem itemId = "I102" />
        <ServedBy waiterId = "S019" />
        <Amount>160</Amount>
    </Order>
</Customer>

<Customer Id = "C00009">
    <Name>Ganesh Karnam</Name>
    <Contact>
        <PhoneNo>7625963258</PhoneNo>
        <Email>gankar@gmail.com</Email>
    </Contact>
    <Subscription>
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</Customer>

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        <ServedBy waiterId = "S016" />
        <Amount>386</Amount>
    </Order>
</Customer>

<Customer Id = "C00010">
    <Name>Sai Santosh</Name>
    <Contact>
        <PhoneNo>8014258259</PhoneNo>
        <Email>saisan@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100010">
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        <ServedBy waiterId = "S018" />
        <Amount>110</Amount>
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</Customer>

<Customer Id = "C00011">
    <Name>Goutam Sharma</Name>
    <Contact>
        <PhoneNo>9437125896</PhoneNo>
        <Email>gousha@gmail.com</Email>
    </Contact>
    <Subscription>
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        <Day>22</Day>
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    <OrderItem itemId = "I107" />
    <OrderItem itemId = "I108" />
    <ServedBy waiterId = "S017" />
    <Amount>260</Amount>
</Order>
</Customer>

<Customer Id = "C00012">
    <Name>Yash Pilla</Name>
    <Contact>
        <PhoneNo>8014125369</PhoneNo>
        <Email>yaspil@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100012">
        <OrderedBy customerId = "C00012"/>
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        <OrderItem itemId = "I122" />
        <ServedBy waiterId = "S016" />
        <Amount>650</Amount>
    </Order>
</Customer>

<Customer Id = "C00013">
    <Name>Soumya Kanth</Name>
    <Contact>
        <PhoneNo>7402962535</PhoneNo>
        <Email>soukan@gmail.com</Email>
    </Contact>

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  <OrderItem itemId = "I124" />
  <ServedBy waiterId = "S018" />
  <Amount>679</Amount>
</Order>
</Customer>

<Customer Id = "C00014">
  <Name>Sanjay Raut</Name>
  <Contact>
    <PhoneNo>9523684200</PhoneNo>
    <Email>sanrau@gmail.com</Email>
  </Contact>
  <Order OrderNo = "D100014">
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</Customer>

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        <ServedBy waiterId = "S020" />
        <Amount>159</Amount>
    </Order>
</Customer>

<Customer Id = "C00015">
    <Name>Ritesh Rane</Name>
    <Contact>
        <PhoneNo>8002123654</PhoneNo>
        <Email>karjai@gmail.com</Email>
    </Contact>
    <Subscription>
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    </Subscription>
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        <OrderItem itemId = "I102" />
        <OrderItem itemId = "I117" />
        <OrderItem itemId = "I124" />
        <ServedBy waiterId = "S021" />
        <Amount>148</Amount>
    </Order>
</Customer>

<Customer Id = "C00016">
    <Name>Ranjan Kumar</Name>
    <Contact>
        <PhoneNo>7978256236</PhoneNo>
        <Email>ranjan@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100016">
        <OrderedBy customerId = "C00016"/>
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        <OrderItem itemId = "I123" />
        <OrderItem itemId = "I124" />
        <OrderItem itemId = "I125" />
        <ServedBy waiterId = "S022" />
        <Amount>750</Amount>
    </Order>
</Customer>

<Customer Id = "C00017">
    <Name>Rashmi Kumari</Name>
    <Contact>
        <PhoneNo>6002412563</PhoneNo>
        <Email>raskum@gmail.com</Email>
    </Contact>
    <Subscription>
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        <OrderItem itemId = "I120" />
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    </Order>
</Customer>

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        <ServedBy waiterId = "S023" />
        <Amount>468</Amount>
    </Order>
</Customer>

<Customer Id = "C00018">
    <Name>Mohit Mehra</Name>
    <Contact>
        <PhoneNo>7458963210</PhoneNo>
        <Email>mohmeh@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100018">
        <OrderedBy customerId = "C00018"/>
        <Date>
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        </Date>
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        <OrderItem itemId = "I113" />
        <OrderItem itemId = "I124" />
        <ServedBy waiterId = "S024" />
        <Amount>150</Amount>
    </Order>
</Customer>

<Customer Id = "C00019">
    <Name>Saurabh Mahajan</Name>
    <Contact>
        <PhoneNo>7495169384</PhoneNo>
        <Email>saumah@gmail.com</Email>
    </Contact>
    <Subscription>
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    <OrderItem itemId = "I118" />
    <ServedBy waiterId = "S025" />
    <Amount>250</Amount>
</Order>
</Customer>

<Customer Id = "C00020">
    <Name>Akash Gupta</Name>
    <Contact>
        <PhoneNo>8695236148</PhoneNo>
        <Email>akagup@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100020">
        <OrderedBy customerId = "C00020"/>
        <Date>
            <Day>23</Day>
            <Month>March</Month>
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        <OrderItem itemId = "I108" />
        <ServedBy waiterId = "S026" />
        <Amount>140</Amount>
    </Order>
</Customer>
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<Customer Id = "C00021">
    <Name>Vivek Saini</Name>
    <Contact>
        <PhoneNo>7064125896</PhoneNo>
        <Email>vivsai@gmail.com</Email>
    </Contact>
    <Subscription>
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    </Date>
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    <OrderItem itemId = "I115" />
        <OrderItem itemId = "I118" />
    <ServedBy waiterId = "S027" />
    <Amount>160</Amount>
</Order>
</Customer>

<Customer Id = "C00022">
    <Name>Raju Babu</Name>
    <Contact>
        <PhoneNo>8526963749</PhoneNo>
        <Email>rajbab@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100022">
        <OrderedBy customerId = "C00022"/>
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        <ServedBy waiterId = "S027" />
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</Customer>

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<Customer Id = "C00023">
  <Name>Divya Rani</Name>
  <Contact>
    <PhoneNo>7401900535</PhoneNo>
    <Email>divran@gmail.com</Email>
  </Contact>
  <Subscription>
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    <OrderItem itemId = "I123" />
    <OrderItem itemId = "I124" />
    <ServedBy waiterId = "S026" />
    <Amount>305</Amount>
  </Order>
</Customer>
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<Customer Id = "C00024">
  <Name>Ashwini Priya</Name>
  <Contact>
    <PhoneNo>9523400200</PhoneNo>
    <Email>ashpri@gmail.com</Email>
  </Contact>
  <Order OrderNo = "D100024">
    <OrderedBy customerId = "C00024"/>
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    <OrderItem itemId = "I116" />
    <ServedBy waiterId = "S025" />
    <Amount>289</Amount>
</Order>
</Customer>

<Customer Id = "C00025">
    <Name>Vishal Rawat</Name>
    <Contact>
        <PhoneNo>8002126654</PhoneNo>
        <Email>visraw@gmail.com</Email>
    </Contact>
    <Subscription>
        <Date>
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            <Year>2021</Year>
        </Date>
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    </Subscription>
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            <Year>2022</Year>
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        <OrderItem itemId = "I118" />
        <ServedBy waiterId = "S024" />
        <Amount>327</Amount>
    </Order>
</Customer>
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<Customer Id = "C00026">
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<Name>Kanak Modi</Name>
<Contact>
  <PhoneNo>7978458961</PhoneNo>
  <Email>kanmod@gmail.com</Email>
</Contact>
<Order OrderNo = "D100026">
  <OrderedBy customerId = "C00026"/>
  <Date>
    <Day>25</Day>
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  <OrderItem itemId = "I125" />
  <ServedBy waiterId = "S023" />
  <Amount>560</Amount>
</Order>
</Customer>

<Customer Id = "C00027">
  <Name>Samay Raina</Name>
  <Contact>
    <PhoneNo>7002456563</PhoneNo>
    <Email>samrai@gmail.com</Email>
  </Contact>
  <Subscription>
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    <OrderItem itemId = "I123" />
    <ServedBy waiterId = "S022" />
    <Amount>425</Amount>
</Order>
</Customer>

<Customer Id = "C00028">
    <Name>Abhijit Rao</Name>
    <Contact>
        <PhoneNo>7458002361</PhoneNo>
        <Email>abhrao@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100028">
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        <ServedBy waiterId = "S021" />
        <Amount>100</Amount>
    </Order>
</Customer>

<Customer Id = "C00029">
    <Name>Rakesh Rathod</Name>
    <Contact>
        <PhoneNo>749599384</PhoneNo>
        <Email>rakrat@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100029">
        <OrderedBy customerId = "C00029"/>
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        <OrderItem itemId = "I118" />
        <ServedBy waiterId = "S020" />
        <Amount>115</Amount>
    </Order>
</Customer>
<Customer Id = "C00030">
    <Name>Sonali Gupta</Name>
    <Contact>
        <PhoneNo>7008120063</PhoneNo>
        <Email>songup@gmail.com</Email>
    </Contact>
    <Order OrderNo = "D100030">
        <OrderedBy customerId = "C00030"/>
        <Date>
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        </Date>
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        <ServedBy waiterId = "S011" />
        <Amount>95</Amount>
    </Order>
</Customer>
<Customer Id = "C00031">
    <Name>Pranay Bahekar</Name>
    <Contact>
        <PhoneNo>80126654</PhoneNo>
        <Email>Pranw@gmail.com</Email>
    </Contact>
    <Subscription>
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  <OrderItem itemId = "I107" />
  <OrderItem itemId = "I104" />
  <ServedBy waiterId = "S020" />
  <Amount>160</Amount>
</Order>
</Customer>
<Customer Id = "C00032">
  <Name>Pranay Chuttar</Name>
  <Contact>
    <PhoneNo>801183554</PhoneNo>
    <Email>pchuttar@gmail.com</Email>
  </Contact>
  <Subscription>
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    <OrderItem itemId = "I120" />
    <OrderItem itemId = "I117" />
    <OrderItem itemId = "I104" />
    <ServedBy waiterId = "S011" />
    <Amount>180</Amount>
  </Order>
</Customer>
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</Customer>
<Customer Id = "C00033">
  <Name>Pranay Mahajan</Name>
  <Contact>
    <PhoneNo>46138684</PhoneNo>
    <Email>pmahajan@gmail.com</Email>
  </Contact>
  <Subscription>
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    </Date>
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  </Subscription>
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      <Year>2022</Year>
    </Date>
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    <OrderItem itemId = "I121" />
    <OrderItem itemId = "I118" />
    <OrderItem itemId = "I105" />
    <ServedBy waiterId = "S012" />
    <Amount>210</Amount>
  </Order>
</Customer>
<Customer Id = "C00034">
  <Name>Nitin Dada</Name>
  <Contact>
    <PhoneNo>1384315865</PhoneNo>
    <Email>nitin@gmail.com</Email>
  </Contact>
  <Subscription>
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        <TableNo tableId = "T02"/>
        <OrderItem itemId = "I120" />
        <OrderItem itemId = "I107" />
        <OrderItem itemId = "I114" />
        <ServedBy waiterId = "S021" />
        <Amount>175</Amount>
    </Order>
</Customer>
<Customer Id = "C00035">
    <Name>Bhagwat Shukla</Name>
    <Contact>
        <PhoneNo>14318362</PhoneNo>
        <Email>sukla@gmail.com</Email>
    </Contact>
    <Subscription>
        <Date>
            <Day>21</Day>
            <Month>May</Month>
            <Year>2021</Year>
        </Date>
        <Duration>90</Duration>
        <Details> Quarterly </Details>
        <Price>300</Price>
    </Subscription>
    <Order OrderNo = "D100035">
        <OrderedBy customerId = "C00035"/>
        <Date>
            <Day>30</Day>
            <Month>March</Month>
            <Year>2022</Year>
        </Date>
        <TableNo tableId = "T04"/>
        <OrderItem itemId = "I121" />
        <OrderItem itemId = "I118" />
        <OrderItem itemId = "I107" />
```

```
        <ServedBy waiterId = "S019" />
        <Amount>149</Amount>
    </Order>
</Customer>
```

```
<Table Id = "T01">
    <TableStatus>Reserved</TableStatus>
</Table>
```

```
<Table Id = "T02">
    <TableStatus>Available</TableStatus>
</Table>
```

```
<Table Id = "T03">
    <TableStatus>Reserved</TableStatus>
</Table>
```

```
<Table Id = "T04">
    <TableStatus>Available</TableStatus>
</Table>
```

```
<Table Id = "T05">
    <TableStatus>Reserved</TableStatus>
</Table>
```

```
<Table Id = "T06">
    <TableStatus>Reserved</TableStatus>
</Table>
```

```
<Table Id = "T07">
    <TableStatus>Reserved</TableStatus>
</Table>
```

```
<Table Id = "T08">
    <TableStatus>Reserved</TableStatus>
</Table>
```

```
<Table Id = "T09">
    <TableStatus>Available</TableStatus>
</Table>
```

```
<Table Id = "T10">
  <TableStatus>Reserved</TableStatus>
</Table>

<Table Id = "T11">
  <TableStatus>Reserved</TableStatus>
</Table>

<Table Id = "T12">
  <TableStatus>Available</TableStatus>
</Table>

<Table Id = "T13">
  <TableStatus>Reserved</TableStatus>
</Table>

<Table Id = "T14">
  <TableStatus>Available</TableStatus>
</Table>

<Table Id = "T15">
  <TableStatus>Reserved</TableStatus>
</Table>

<Area>
  <Kitchen Id = "A04">
    <SurfaceArea>500</SurfaceArea>
  </Kitchen>
  <BillingCounter Id = "A03">
    <SurfaceArea>100</SurfaceArea>
  </BillingCounter>
  <DiningArea Id = "A15">
    <SurfaceArea>4618</SurfaceArea>
  </DiningArea>
  <PartyHall Id = "A01">
    <SurfaceArea>1000</SurfaceArea>
    <BookedBy customerId = "C00001"/>
  </PartyHall>
  <PartyHall Id = "A02">
    <SurfaceArea>800</SurfaceArea>
    <BookedBy customerId = "C00002"/>
  </PartyHall>
  <RestRoom Id = "A05">
    <SurfaceArea>100</SurfaceArea>
  </RestRoom>
```

```

    <RestRoom Id = "A06">
        <SurfaceArea>100</SurfaceArea>
    </RestRoom>
    <RestRoom Id = "A12">
        <SurfaceArea>100</SurfaceArea>
    </RestRoom>
    <RestRoom Id = "A13">
        <SurfaceArea>100</SurfaceArea>
    </RestRoom>
    <RestRoom Id = "A14">
        <SurfaceArea>100</SurfaceArea>
    </RestRoom>
    <StorageRoom Id = "A07">
        <SurfaceArea>2000</SurfaceArea>
    </StorageRoom>
    <StorageRoom Id = "A08">
        <SurfaceArea>1000</SurfaceArea>
    </StorageRoom>
    <StorageRoom Id = "A09">
        <SurfaceArea>1500</SurfaceArea>
    </StorageRoom>
    <StorageRoom Id = "A10">
        <SurfaceArea>1800</SurfaceArea>
    </StorageRoom>
    <StorageRoom Id = "A11">
        <SurfaceArea>1130</SurfaceArea>
    </StorageRoom>
</Area>

<Expenditure>1500000000</Expenditure>

<Contact>
    <PhoneNo>9134685254</PhoneNo>
    <Email>vijayalankar@gmail.com</Email>
</Contact>

</Branch>
</Restaurant>

```

## DTD Description :

1. Address: It specifies the address of a particular branch containing Street, City, Pin, State and Country

2. MenuCard: It consists of Starter, MainCourse and Dessert. Each of this contains multiple items where each item contains the following:  
Food or Beverage : Denotes the name of Food or Beverage item  
Price: It denotes the price of Item  
Origin: It denotes the place where the Item is originated from
3. Staff : It consists of Manager,Supervisor,Chef,Cashier,Waiter,Janitor staff members where each of them have Name, WorksAt, Salary, Contact. Each of them except Manager contains ReportsTo. The description is as follows.  
Name: It specifies the name of the staff.  
WorksAt: It refers to the area where the staff works at.  
Salary: It specifies the monthly salary of the staff.  
Contact: It contains the Phone No and Email of the staff.  
ReportsTo: It refers to the staff to whom given staff reports to.
4. Customer: Customer consists of the following.  
Name: It specifies the name of the customer.  
Contact: It contains the Phone No and Email of the customer.  
Subscription: It contains the Subscription Date, Duration,Details and Price of the subscription  
Order: It consists of the following  
    Ordered By: It refers to the customer who ordered the given order  
    Date: It specifies the date of order.  
    Table No: It refers to the table where the food is ordered.  
    Order Item: It refers to the Item which is ordered.  
    Served By: It refers to the waiter who is serving the order.  
    Amount: It refers to the total amount of the order.
5. Table: It consists of Table Status which specifies if the table is booked or not.
6. Area: It consists of various areas in the restaurant such as Kitchen, Billing Counter, Party Hall, Rest Room and Storage Room. All of them consist of Surface Area which describes the total area.Party Hall consists of Booked By which refers to the customer who booked the party hall.
7. Expenditure: It specifies the total cost of running the restaurant branch which is paid by the restaurateur.
8. Contact: It contains the Phone No and Email of the restaurant.

★ To describe the data for the given DTD, we have used one data type, that is #PCDATA which stands for parsed character data.