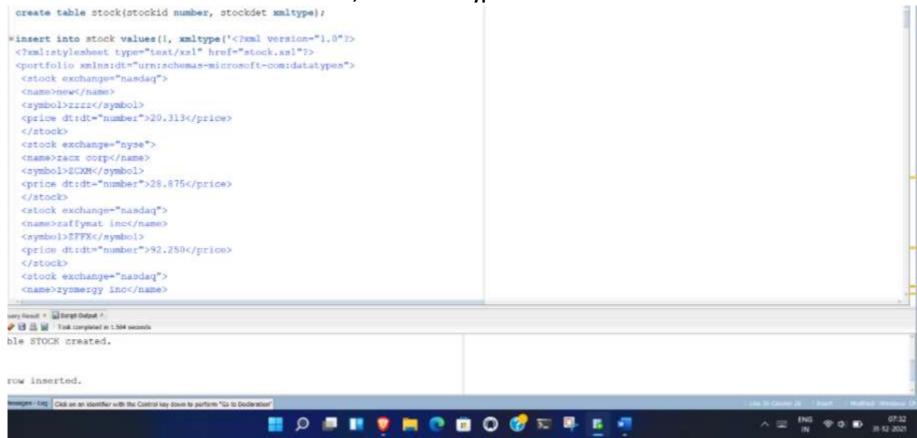
DATABASE TECHNOLOGIES

Section - I

Create a table Stock with stockid number, stockdet xmltype. Insert values into the stock table as shown below.



1. Display stock price whose value is greater than 50.50 using xpath.

```
stock_data AS
   (select xt.* from stock x, xmltable('portfolio/stock'
        passing x.stockdet columns
        stock_exchange varchar2(10) path '@exchange',
        name varchar2(10) path 'name',
        symbol varchar2(12) path 'symbol',
        price number(10, 4) path 'price')
xt)
select * from stock_data where price>50.50;
```

Display only the attribute values of the Stock exchange.

```
-WITH
    stock data AS
        (select xt.* from stock x, xmltable('portfolio/stock'
            passing x.stockdet columns
            stock_exchange varchar2(10) path '8exchange',
            name varchar2(10) path 'name',
            symbol varchar2(12) path 'symbol',
            price number(10, 4) path 'price')
       select stock exchange from stock data;
Script Output * Query Result *
🖈 📇 🍇 🗃 SQL - All Rows Fetched: 4 in 8.023 seconds
  STOCK EXCHANGE
  t nasdag
  2 nyse
  1 nasdag
  4 nasdag
```

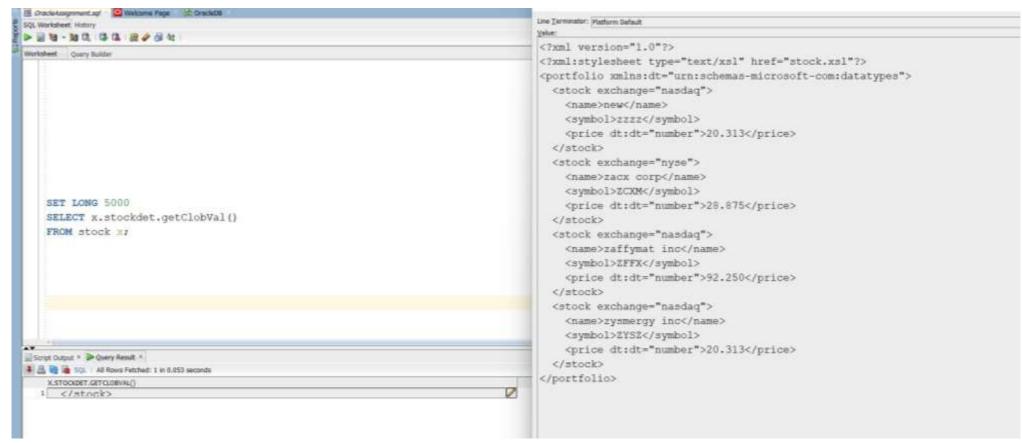
2. Display the name of the stock whose name starts with "z...".

```
Sont Output * D Outpy Result *

Sont Output *

Sont Outpu
```

3. Display the all the elements of the stock.



4. Display only the symbol and price values.

```
Sequence of the stock and the
```

5. Change the price value of stock whose name is "zysmergy inc".

Convert RDBMS table into XMLtype. For the following Restaurant data. Create tables for restaurant and menu as per xml document shown below. Copy the restaurant information into the 'rest_xmltab' using PL/SQL.

```
create or replace type coordinate as object(
    latitutude varchar2(30),
    longtitude varchar2(30));
   CREATE OR REPLACE TYPE addr AS OBJECT (
     street varchar2(30),
     city varchar2(20),
     country varchar2 (30),
     coordinates coordinate
    12
    create or replace type map_zoom as object
    (minZoomLevel number (3),
        maxZoomLevel number(3));
Script Output * D Query Result * D Query Result 1 *
 🖈 🤣 🔠 🔛 Tank completed in 0.083 seconds
Type COORDINATE compiled
Type ADDR compiled
Type MAP_ZOOM compiled
```

```
create table menu(
category_id varchar2(12) primary key,
name varchar2(60),
icon varchar2(100)
);

create table dish(
dish_name varchar2(30),
dish_icon varchar2(100),
description varchar2(1000),
category_id varchar2(12));

soutoups * Down tant * Down tant *

** P B = Task completed in 0.335 seconds

Table MENU created.

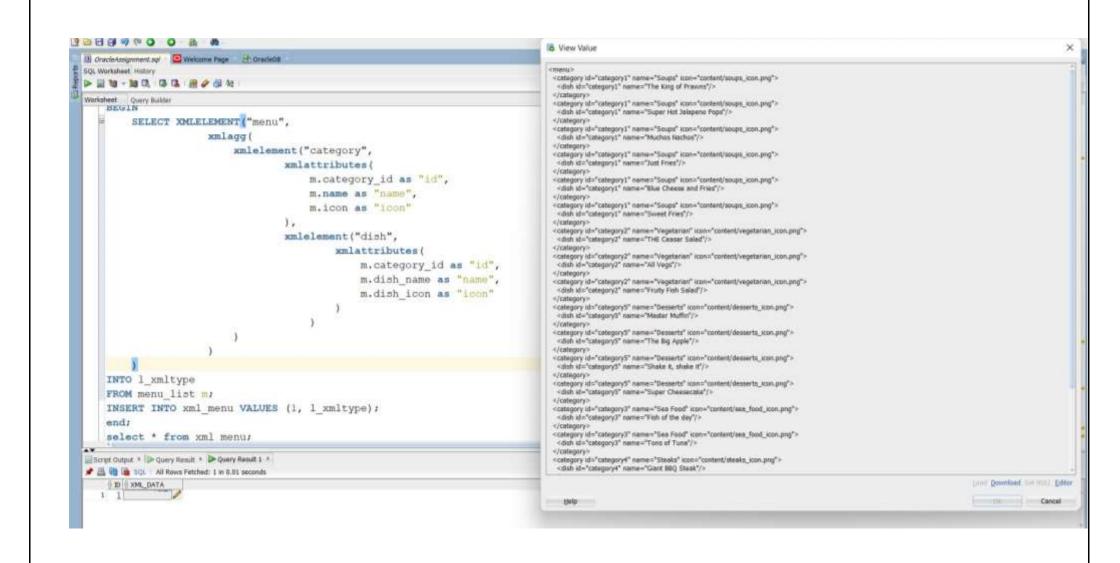
Table DISH created.
```

```
insert into menu values ('categoryl', 'Soups',
                                                         'content/soups icon.png');
                                                         'content/vegetarian_icon.png');
   insert into menu values ('category2', 'Vegetarian',
   insert into menu values ('category3', 'Sea Food',
                                                          'content/sea food icon.png');
   insert into menu values ('category4', 'Steaks',
                                                         'content/steaks icon.png');
   insert into menu values ('category5', 'Desserts',
                                                         'content/desserts icon.png');
   insert into menu values ('category6', 'Drinks',
                                                         'content/drinks_icon.png');
   insert into dish values ('The King of Prawns',
                                                                      'Deep-fried king prawns and Sweet Chilisauce.', 'category1');
   insert into dish values ('Super Hot Jalapeno Pops',
                                                                      'Deep-fried jalapenos filled with cheese. Served with garlic mayonnaise and out SuperHot
                                                                      'Tortillaa chips, melted cheddar cheese, salsa sauce, jalapeno slices, sour cream and qu
   insert into dish values ('Muchos Nachos',
   insert into dish values ('Just Fries',
                                                                      'Salted fries with bbg sauce', 'categoryl');
                                                                      'Seasoned Criss Cuts with blue cheesesauce.', 'categoryl');
   insert into dish values ('Blue Cheese and Fries',
                                                                      'Sweet potato fries with our special mustardsauce.', 'categoryl'),
   insert into dish values ('Sweet Fries',
   insert into dish values ('THE Ceasar Salad',
                                                                  'A mixed green salad with Caesar dressing, Parmesan cheese, croutons and arugula with a choi
   insert into dish values ('All Vegs',
                                                                  'A mixed green salad with cherry tomato, cucumber, fresh pineapple, orange, marinated red or
                                                         "1"
                                                                  'A mixed green salad with salmon fillet, cherry tomato, cucumber, fresh pineapple, orange, s
   insert into dish values ('Fruity Fish Salad',
   insert into dish values ('Master Muffin',
                                                                  'Chocolate muffin with white-chock chips, served with vanilla whipped cream.', 'category5');
   insert into dish values ('The Big Apple',
                                                                  'Apple pie with pecan nuts and raisins, served with vanilla ice cream and chocolate sauce.',
                                                     1.1
   insert into dish values ('Shake it, shake it',
                                                                  'A giant milk shake with a choice of bananachocolate, chocolate, strawberry-vanilla or mint-
   press fate disk malnestlyman characalut
                                                                  to have made absence the assent with horse of chiesest successed field because and statement on
Script Output * | Do Query Result * | Do Query Result 1 *
* P E B E Task completed in 0.261 seconds
I row inserted.
```

1. Retrieve the restaurant information into xml form using PL/SQL code

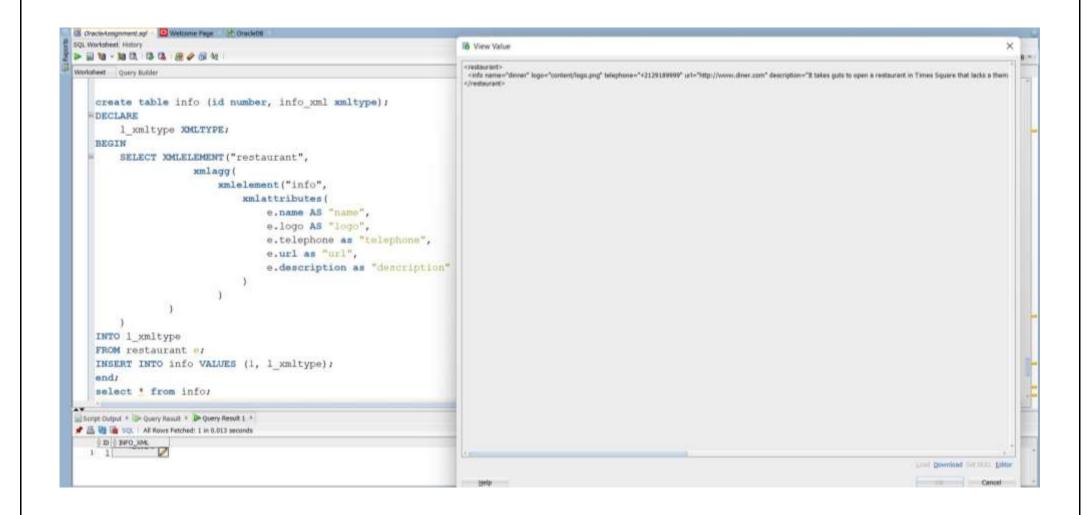
```
B View Value
   DECLARE
                                                                                                                      <restaurant>
          1_xmltype XMLTYPE;
    BEGIN
                                                                                                                        <name >dinner </name >
                                                                                                                        logo > content/lego.png 
           SELECT XMLELEMENT ("restaurant",
                                                                                                                        <address=
                                                                                                                         <STREET > 1567 Broadway</STREET >
                                                                                                                         +CITY>New York+/CITY>
                      XMLELEMENT ("info",
                                                                                                                         <COUNTRY>United States
                                                                                                                         <COORDINATES>
                             XMLFOREST (
                                                                                                                          <LATITUTUDE>40.75930175423635</LATITUTUDE>
                                   e.name AS "name",
                                                                                                                          <LONGTITUDE>-73.98525953292847</LONGTITUDE>
                                                                                                                         «/COORDINATES»
                                   e.logo AS "logo",
                                                                                                                        «/nddress»
                                                                                                                        conne>
                                   e.address AS "address",
                                                                                                                        <MBIZOGMLEVEL>12</MBIZOGMLEVEL><MAXZOGMLEVEL>17/MAXZOGMLEVEL>
                                   e.map as "map",
                                   e.telephone as "telephone",
                                                                                                                        <telephone>+2129189999</telephone>
                                                                                                                        <ur><urt>http://www.diner.com</urt></urt></ur>
                                   e.url as "url",
                                                                                                                        <description> It takes guts to open a restaurant in Times Square that lacks a theme or
                                                                                                                      strives to be classier than a carrival. Granted, Diner offers an audacious voyeurs paradise in
                                   e.description as "description"
                                                                                                                      its soaring staircase that rises alongside a suspended abstract sculpture of a fork, Mayson
                                                                                                                      Bacon Ir. has succeeded finding a perfect balance between class and bacon, </description>
                                                                                                                      </restaurant>
    INTO 1 xmltype FROM restaurant e;
    INSERT INTO xml_restaurant VALUES (1, 1_xmltype);
    end;
    select * from xml_restaurant;
Scrut Output * De Query Result * De Query Result 1 *
# 🚵 🧠 🐞 SQL / All Rows Fetched: 1 in 0.011 seconds
    () ID () XML_DATA
```

2. Retrieve the menu details into xml column



3. Retrieve the info details of sub element as an attribute of info tag.

Moeenul Islam-21MCA0269



4. Insert a new category element with a set of dish names.



5. Update "category5" of dish name "Super Cheesecake" into "Super Cheese Sauce".

