

Milestone #3 XML

Requests (Part 1)

1. Retrieve customer names and their associated email addresses.
2. Show venue names along with their locations.
3. Show event organiser names and their corresponding phone numbers.
4. Find performers' names for each event.(group by event).
5. Find all reviews information including customer name and eventname and eventDate.
6. Show the information of all tickets sold, including information who bought them(group by event).
7. Show event name and id for venue id SA.
8. Find all the tickets, their seats and their venues for all events taking place.
9. Find all tickets for events organised by busy_buzz.
10. Find all performers, their details and which venues they are performing at.
11. Retrieve the venue details and seat details.
12. List all events and corresponding tickets.
13. Find the seat details and ticket details for a specific seat id SAA5.
14. Find all the unsold tickets with the event name.
15. List tickets, ticket Price and booking status associated with each customer. (grouped by customer)
16. Find all the ticket details and the eventName of all the tickets bought by "akram sis":
17. Find all reviews written by "ros bios".
18. Find the event names and the performers that will be at Scotiabank Arena.
19. Find all the names and reviews for the event with eventID = '196-LF-240208'.
20. Find the orgName and the phone number of the event organisers of the event with eventName = 'Jubilee kpop'.
21. Find the order that takes place on Oct, 02, 2026:
22. Find the event, which took place "23-Feb-2024"
23. Find all reviews for "lost frequencies"
24. Find the event, which has a star rating lower than 3:
25. Find all reviews from customer id 'akram_sis'.
26. Find the customer's phone number, who writes a review for the event 'American Girl'.
27. Find the performers which have a showtime of 8:00 pm.
28. Find the performer's name with PerformerID = '98-JK'.
29. Find the event names of events with a showtime of 8:00 pm.
30. Find events with performer ID 125-AG.
31. Find the performer(s) that perform at American Girl.
32. Return customer name that belongs to phone number 4367924622.
33. Find performer that is performing at venue Scotiabank Arena.
34. Count the number of events that take place at Scotiabank arena.
35. For star ratings that are less than 3, find the customer's phone number.

SQL Statements

For 15 requests formulate SQL statements with Oracle XML functions returning XML (Part 2):

1. Retrieve customer names and their associated email addresses.

```
SELECT XMLRoot(  
    XMLElement("Customers",  
        XMLAgg(  
            XMLElement("Customer",  
                XMLForest(  
                    c.customerName AS "Name",  
                    c.emailAddress AS "Email",  
                    c.phoneNumber AS "Phone_Number",  
                    c.homeAddress AS "Address"  
                )  
            )  
        ),  
        VERSION '1.0',  
        STANDALONE YES  
    ) AS "Customer_Info"  
FROM Customer c  
GROUP BY c.customerName;
```

2. Show venue names along with their locations:

```
SELECT XMLRoot(  
    XMLElement("Venues",  
        XMLAgg(  
            XMLElement("Venue",  
                XMLForest(  
                    v.venueName AS "Name",  
                    v.location AS "Location",  
                    v.capacity AS "Capacity"  
                )  
            )  
        ),  
        VERSION '1.0',  
        STANDALONE YES  
    ) AS "Venue_Info"  
FROM Venue v  
GROUP BY v.venueName;
```

3. Show event organiser names and their corresponding phone numbers.

```
SELECT XMLRoot(  
    XMLElement("Event_Organizers",  
        XMLAgg(  
            XMLElement("Event_Organizer",  
                XMLForest(  
                    eo.orgName AS "Name",  
                    eo.phoneNumber AS "Phone_Number"  
                )  
            )  
        ),  
        VERSION '1.0',  
        STANDALONE YES  
    ) AS "Event_Organizers_Info"  
FROM EventOrganizer eo  
GROUP BY eo.orgName;
```

4. Find performers' names for each event (group by event).

```
select  
xmlroot(xmlelement("EventInfo",xmlagg(xmlelement("Event",xmlelement(eventName,pd.  
eventRef.eventName),xmlagg(xmlelement("Performer",  
xmlforest(pd.performerRef.performerID, pd.performerRef.performerName))))), version  
'1.0', standalone yes) as doc from PerformerDetail pd group by pd.eventRef.eventName;
```

5. Find all reviews information including customer name and eventname and eventDate.

```
select  
xmlroot(xmlelement("ReviewInfo",xmlagg(xmlelement("Review",xmlattributes(r.reviewID  
as "reviewID"),xmlelement("Customer",xmlattributes(r.customerRef.userID as  
"ID"),xmlelement(customerRef,r.customerRef.customerName)),xmlelement("eventRef",x  
mlforest(r.eventRef.eventName,  
r.eventRef.eventDate)),xmlelement(starRating,r.starRating),xmlelement(userReview,r.us  
erReview)))),version '1.0', standalone yes) as doc from Review r;
```

6. Show the information of all tickets sold, including information who bought them (group by event).

```
select  
xmlroot(xmlelement("eventInfo",xmlagg(xmlelement("eventlist",xmlattributes(t.eventRef.e  
ventID as  
"eventID"),xmlagg(xmlelement("client",xmlattributes(t.orderRef.customerRef.userID as  
"clientID"),xmlforest(t.orderRef.customerRef.customerName as  
"Name",t.orderRef.customerRef.phoneNumber as "phoneNumber")))),version  
'1.0',standalone yes) as doc from Ticket t group by t.eventRef.eventID;
```

7. Show event name and id for venue id SA.

```
SELECT XMLRoot(  
  XMLElement("Venue",  
    XMLForest(  
      v.venueID AS "VenueID",  
      v.venueName AS "VenueName",  
      v.location AS "VenueLocation",  
      (SELECT XMLAgg(  
        XMLElement("Event",  
          XMLForest(  
            e.eventID AS "EventID",  
            e.eventName AS "EventName"  
          )  
        )  
      )  
    )  
  ) AS "VenueEvents"  
),  
  VERSION '1.0', STANDALONE YES  
) AS "Query7"  
FROM Venue v  
WHERE v.venueID = 'SA';
```

8. Find all the tickets, their seats and their venues for all events taking place.

```
select xmlroot(xmlagg(xmlagg(xmlelement("TicketInfo", xmlagg(xmlelement("Ticket", xmlattributes(t.ticketID AS  
"TicketID"), xmlelement("Seat", xmlattributes(t.seatRef.seatID AS  
"SeatID")),xmlelement("Venue", xmlforest(t.seatRef.venueRef.venueID AS "VenueID",  
t.seatRef.venueRef.venueName AS "VenueName"))))),version '1.0', standalone yes) AS Query8  
from Ticket t;
```

```
select xmlroot(xmlelement("BusyBuzzEvents", xmlagg(xmlelement("Event",
xmlattributes(t.eventRef.eventName AS "EventName"), xmlagg(xmlelement("Ticket",
xmlattributes(t.ticketID AS "TicketID"), xmlforest(t.ticketPrice as "TicketPrice", t.ticketStatus as
"TicketStatus"))))), version '1.0', standalone yes) AS Query9 from Ticket t WHERE
t.eventRef.eventOrganizerRef.orgName = 'Busy Buzz' group by t.eventRef.eventName;
```

11. Retrieve the venue details and seat details.

```

SELECT XMLRoot(
    XMLElement("SeatAndVenueDetails",
        XMLForest(
            XMLElement("Seat",
                XMLForest(
                    s.seatID AS "SeatID",
                    s.seatType AS "SeatType",
                    s.seatLocation AS "SeatLocation"
                )
            ) AS "SeatDetails",
            XMLElement("Venue",
                XMLForest(
                    v.venueID AS "VenueID",
                    v.venueName AS "VenueName",
                    v.location AS "VenueLocation"
                )
            ) AS "VenueDetails"
        )
    ),
    VERSION '1.0', STANDALONE YES
) AS "Query11"
FROM Seat s, Venue v
WHERE s.venueRef.venueID = v.venueID;
```

12. List all events and corresponding tickets.

```
SELECT XMLRoot(  
  XMLElement("TicketAndEventDetails",  
    XMLForest(  
      XMLElement("Ticket",  
        XMLForest(  
          t.ticketID AS "TicketID",  
          t.ticketPrice AS "TicketPrice",  
          t.ticketStatus AS "TicketStatus"  
        )  
      ) AS "TicketDetails",  
      XMLElement("Event",  
        XMLForest(  
          e.eventID AS "EventID",  
          e.eventName AS "EventName",  
          e.eventDate AS "EventDate",  
          e.eventDescription AS "EventDescription"  
        )  
      ) AS "EventDetails"  
    )  
  ),  
  VERSION '1.0', STANDALONE YES  
) AS "Query12"  
FROM Ticket t, Event e  
WHERE t.eventRef.eventID = e.eventID;
```

13. Find the seat details and ticket details for a specific seat id SAA5.

```
SELECT XMLRoot(  
  XMLElement("SeatAndTicketDetails",  
    XMLAgg(  
      XMLElement("SeatAndTicket",  
        XMLForest(  
          s.seatID AS "SeatID",  
          s.seatType AS "SeatType",  
          s.seatLocation AS "SeatLocation",  
          (SELECT XMLForest(  
            t.ticketID AS "TicketID",  
            t.ticketPrice AS "TicketPrice",  
            t.ticketStatus AS "TicketStatus"  
          )  
          FROM Ticket t  
          WHERE t.seatRef.seatID = s.seatID  
        ) AS "TicketDetails"  
      )  
    )  
  ),  
  VERSION '1.0', STANDALONE YES
```

```

) AS "Query13"
FROM Seat s
WHERE s.seatID = 'SAA5'
GROUP BY s.seatID, s.seatType, s.seatLocation;

```

14. Find all the unsold tickets with the event name.

```

select xmlroot(xmlelement("UnsoldTicketList",xmlagg(
  xmlelement("UnsoldTicket",xmlattributes(t.ticketID as "ticketID"),
  xmlagg(xmlelement("Event", xmlattributes(t.eventRef.eventID as "eventID"),
  xmlforest(t.eventRef.eventName AS "Event")
  )))),VERSION '1.0', STANDALONE YES) as "UnsoldTicketList" from Ticket t where
t.ticketStatus=0 group by t.ticketID;

```

15. List tickets, ticket Price and booking status associated with each customer. (grouped by customer)

```

select xmlroot(
  xmlelement("CustomerList",
  xmlagg(
    xmlelement("Customer",xmlattributes(t.orderRef.customerRef.userID as "cID"),
    xmlagg(
      xmlelement("Event",xmlattributes(t.eventRef.eventID as "eventID"),
      xmlforest(t.eventRef.eventName as "eventName",t.ticketID as
      "ticketNumber",t.getPrice() as "price", t.orderRef.bookingStatus as "bookingStatus")))),
  VERSION '1.0', STANDALONE YES) as "CustomerOrderList"
from Ticket t where t.ticketStatus=1 group by t.orderRef.customerRef.userID;

```

Create 5 XML documents using Oracle XSU (Part 3):

1. Find all the ticket details and the eventName of all the tickets bought by "akram sis".

```
OracleXML getXML -user "grp2/grp2there" -conn  
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:stadb10g"  
-rowsetTag "UserAkramSis" -rowTag "TicketDetails" "select t.ticketID,  
t.eventRef.eventName,t.ticketPrice from Ticket t where  
t.orderRef.customerRef.customerName='akram sis'"
```

2. Find all reviews written by "ros bios".

```
OracleXML getXML -user "grp2/grp2there" -conn  
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:stadb10g"  
-rowsetTag "UserRosBios" -rowTag "ReviewRecord" "Select r.eventRef.eventName as  
EventName, r.userReview as Review, r.starRating as Rating from Review r Where  
r.customerRef.customerName = 'ros bios'"
```

3. Find the event names and the performers that will be at Scotiabank Arena.

```
OracleXML getXML -user "grp2/grp2there" -conn \  
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:stadb10g" \  
-rowsetTag "ScotiabankArena" -rowTag "EventDetails" "Select pd.eventRef.eventName  
as EventName, pd.performerRef.performerName as PerformerName from  
PerformerDetail pd Where pd.eventRef.venueRef.venueName = 'Scotiabank Arena'"
```

4. Find all the names and reviews for the event with eventID = '196-LF-240208'.

```
OracleXML getXML -user "grp2/grp2there" -conn \  
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:stadb10g" \  
-rowsetTag "LostFrequenciesEvent" -rowTag "CustomerReview" "Select  
r.customerRef.customerName as CustomerName, r.userReview as Review from Review  
r Where r.eventRef.eventID = '196-LF-240208'"
```

5. Find the orgName and the phone number of the event organizers of the event with
eventName = 'Jubilee kpop'.

```
OracleXML getXML -user "grp2/grp2there" -conn \  
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:stadb10g" \  
-rowsetTag "JubileeKpop" -rowTag "OrgDetails" "Select e.eventOrganizerRef.orgName  
as OrganizerName, e.eventOrganizerRef.phoneNumber as OrganizerPhoneNo from  
Event e Where e.eventName = 'Jubilee kpop'"
```


Formulate 15 Queries in XQuery Language (Part 5)

1. Find the order that takes place on Oct, 02, 2026.

```
xquery
let $c := doc('/public/grp20242/orderInfo.xml')
for $m in $c/OrderInfo/Order
where $m/TO_DATE = '2026-10-02'
return $m/OrderType/text()
/
```

2. Find the event, which took place "23-Feb-2024".

```
xquery
let $e := doc('/public/grp20242/eventInfo.xml')
for $d in $e/Events/Event
where $d/DATE = '2024-02-23'
return $d/EVENTNAME/text()
/
```

3. Find all reviews for "lost frequencies".

```
xquery
let $reviews := doc('/public/grp20242/reviewInfo1.xml')
for $review in $reviews/ReviewInfo/Review
where $review/eventRef/PERFORMERNAME = 'Lost Frequencies'
return $review
/
```

4. Find the event, which has a star rating lower than 3.

```
xquery
let $c:=doc('/public/grp20242/reviewInfo.xml')
for $m in $c/ReviewInfo/Review
where $m/STARRATING < 3
return $m/eventRef/EVENTNAME/text()
/
```

5. Find all reviews from customer id 'akram_sis'.

```
xquery
let $c:=doc('/public/grp20242/reviewInfo.xml')
for $m in $c/ReviewInfo/Review
where $m/Customer/@ID = 'akram_sis'
return <review
ID="{ $m/@reviewID }"><eventName>{ $m/eventRef/EVENTNAME/text() }</eventName><starRating>{ $m/STARRATING/text() }</starRating></review>
/
```

6. Find the customer's phone number, who writes a review for the event 'American Girl'.

```
xquery
let $c:=doc('/public/grp20242/reviewInfo.xml')
for $m in $c/ReviewInfo/Review[eventRef/EVENTNAME = 'American Girl']
let $s :=doc('/public/grp20242/customer.xml')
```

```

for $d in $s/CustomerInfo/Customer
where $d/@ID = $m/Customer/@ID
return $d/PHONENUMBER/text()
/

```

7. Find the performers which have a showtime of 8:00 pm.

```

xquery
let $v:=doc("/public/grp20242/VenuePerformers.xml")
for $p in $v/VenuePerformers/Venue/Performer
where $p/Showtime = 'Time is 8:00 pm'
return $p/PerformerName/text()
/

```

8. Find the performer's name with PerformerID = '98-JK'.

```

xquery
let $v:=doc("/public/grp20242/VenuePerformers.xml")
for $p in $v/VenuePerformers/Venue/Performer
where $p/@PerformerID = '98-JK'
return $p/PerformerName/text()
/

```

9. Find the event names of events with a showtime of 8:00 pm.

```

xquery
let $v:=doc("/public/grp20242/VenuePerformers.xml")
for $performeratt in $v/VenuePerformers/Venue/Performer[Showtime = 'Time is 8:00 pm']
let $e:=doc("/public/grp20242/EventInfoD.xml")
let $performerele := $performeratt/@PerformerID
for $event in $e/EventInfo/Event
where $event/Performer/PERFORMERID = $performerele
return $event/EVENTNAME/text()
/

```

10. Find events with performer ID 125-AG.

```

xquery
let $v := doc("/public/grp20242/VenuePerformers.xml")
let $performeratt := $v/VenuePerformers/Venue/Performer[@PerformerID = '125-AG']
let $e := doc("/public/grp20242/EventInfoD.xml")
let $performerele := $performeratt/@PerformerID
for $event in $e/EventInfo/Event
where $event/Performer/PERFORMERID = $performerele
return $event/EVENTNAME/text()
/

```

11. Find the performer(s) that perform at American Girl.

```

xquery
let $eventName := 'American Girl'
let $e := doc("/public/grp20242/EventInfoD.xml")
for $event in $e//Event[EVENTNAME = $eventName]
where $event/Performer/PERFORMERNAME
return $event/Performer/PERFORMERNAME/text()
/

```

12. Return customer name that belongs to phone number 4367924622.

```

xquery
let $v := doc("/public/grp20242/customer.xml")
for $c in $v/CustomerInfo/Customer
where $c/PHONENUMBER = '4367924622'
return ($c/CUSTOMERNAME/text())
/

```

13. Find performer that is performing at venue Scotiabank Arena.

```

xquery
let $venueName := 'Scotiabank Arena'
let $c := doc('/public/grp20242/VenuePerformers.xml')
for $venue in $c//Venue
where $venue/@VenueName = $venueName
return $venue/Performer/PerformerName/text()
/

```

14. Count the number of events that take place at Scotiabank Arena.

```

xquery
let $venueName := 'Scotiabank Arena'
let $venue := doc('/public/grp20242/VenuePerformers.xml')//Venue[@VenueName =
$venueName]
let $total := sum(
  for $performer in $venue/Performer
  let $performerName := $performer/PerformerName/text()
  let $events := doc('/public/grp20242/EventInfoD.xml')//Event
  where $events/Performer/PERFORMERNAME = $performerName
  return count($events)
)
return $total
/

```

15. For star ratings that are less than 3, find the customer's phone number.

```

xquery
let $r:=doc("/public/grp20242/reviewInfo.xml")
for $sr in $r/ReviewInfo/Review[STARRATING < 3]
let $c:=doc("/public/grp20242/customer.xml")

```

```
for $a in $c/CustomerInfo/Customer
where $a/@ID = $sr/Customer/@ID
return $a/PHONENUMBER/text()
/
```

SPOOL FOR PART 2 OF ASSIGNMENT

SQL> @part_one.sql

SQL>

```
SQL> SELECT XMLRoot(  
2         XMLElement("Customers",  
3         XMLAgg(  
4             XMLElement("Customer",  
5                 XMLForest(  
6                     c.customerName AS "Name",  
7                     c.emailAddress AS "Email",  
8                     c.phoneNumber AS "Phone_Number",  
9                     c.homeAddress AS "Address"  
10                )  
11            )  
12        )  
13    ),  
14    VERSION '1.0',  
15    STANDALONE YES  
16    ) AS "Customer_Info"  
17 FROM Customer c  
18 GROUP BY c.customerName;
```

Customer_Info

```
-----  
<?xml version="1.0" standalone="yes"?>  
<Customers>  
  <Customer>  
    <Name>ahmad rias</Name>  
    <Email>ahmadrias@gmail.com</Email>  
    <Phone_Number>4367924622</Phone_Number>  
    <Address>2565 Hazel St apt607 Burnaby BC V5H4T1</Address>  
  </Customer>  
</Customers>
```

```
<?xml version="1.0" standalone="yes"?>  
<Customers>  
  <Customer>  
    <Name>akram sis</Name>  
    <Email>akramsis@gmail.com</Email>  
    <Phone_Number>4678824699</Phone_Number>  
    <Address>2565 Finch Ave W,unit3,North York,ON M9M2G1</Address>  
  </Customer>  
</Customers>
```

```
<?xml version="1.0" standalone="yes"?>  
<Customers>  
  <Customer>  
    <Name>ros bios</Name>  
    <Email>rosbios@gmail.com</Email>  
    <Phone_Number>4647822499</Phone_Number>
```

```
<Address>520 Bryne Dr,Unit 7,Barrie ON L4N9P6</Address>
</Customer>
</Customers>
```

SQL>

```
SQL> SELECT XMLRoot(
2         XMLElement("Venues",
3         XMLAgg(
4         XMLElement("Venue",
5         XMLForest(
6         v.venueName AS "Name",
7         v.location AS "Location",
8         v.capacity AS "Capacity"
9         )
10        )
11        ),
12        ),
13        VERSION '1.0',
14        STANDALONE YES
15        ) AS "Venue_Info"
16 FROM Venue v
17 GROUP BY v.venueName;
```

Venue_Info

<?xml version="1.0" standalone="yes"?>

```
<Venues>
  <Venue>
    <Name>BC Place</Name>
    <Location>777 Pacific Blvd Vancouver, BC</Location>
    <Capacity>54500</Capacity>
  </Venue>
</Venues>
```

<?xml version="1.0" standalone="yes"?>

```
<Venues>
  <Venue>
    <Name>Rogers Centre</Name>
    <Location>1 Blue Jays Way, Toronto, ON M5V1J1</Location>
    <Capacity>41500</Capacity>
  </Venue>
</Venues>
```

<?xml version="1.0" standalone="yes"?>

```
<Venues>
  <Venue>
    <Name>Scotiabank Arena</Name>
    <Location>40 Bay St., Toronto, ON M5J2X2</Location>
    <Capacity>19800</Capacity>
```

```
</Venue>
</Venues>
```

SQL>

```
SQL> SELECT XMLRoot(
2         XMLElement("Event_Organizers",
3         XMLAgg(
4         XMLElement("Event_Organizer",
5         XMLForest(
6         eo.orgName AS "Name",
7         eo.phoneNumber AS "Phone_Number"
8         )
9         )
10        )
11        ),
12        VERSION '1.0',
13        STANDALONE YES
14        ) AS "Event_Organizers_Info"
15 FROM EventOrganizer eo
16 GROUP BY eo.orgName;
```

Event_Organizers_Info

```
-----
<?xml version="1.0" standalone="yes"?>
<Event_Organizers>
  <Event_Organizer>
    <Name>Busy Buzz</Name>
    <Phone_Number>4677364899</Phone_Number>
  </Event_Organizer>
</Event_Organizers>
```

```
<?xml version="1.0" standalone="yes"?>
<Event_Organizers>
  <Event_Organizer>
    <Name>Funzone</Name>
    <Phone_Number>4647362899</Phone_Number>
  </Event_Organizer>
</Event_Organizers>
```

```
<?xml version="1.0" standalone="yes"?>
<Event_Organizers>
  <Event_Organizer>
    <Name>Hungry wines</Name>
    <Phone_Number>4367362422</Phone_Number>
  </Event_Organizer>
</Event_Organizers>
```

SQL>

```
xmlroot(xmlElement("EventInfo",xmlagg(xmlElement("Event",xmlElement(eventName,pd.eventRef.eventName),xmlagg(xmlElement("Performer",
3  xmlforest(pd.performerRef.performerID,
4  pd.performerRef.performerName)))))), version '1.0', standalone yes) as doc from
5 PerformerDetail pd group by pd.eventRef.eventName;
```

```
<?xml version="1.0" standalone="yes"?>
<EventInfo>
  <Event>
    <EVENTNAME>American Girl</EVENTNAME>
    <Performer>
      <PERFORMERID>125-AG</PERFORMERID>
      <PERFORMERNAME>Arina Grande</PERFORMERNAME>
    </Performer>
    <Performer>
      <PERFORMERID>103-NM</PERFORMERID>
      <PERFORMERNAME>Nike Minaj</PERFORMERNAME>
    </Performer>
  </Event>
  <Event>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <Performer>
      <PERFORMERID>98-JK</PERFORMERID>
      <PERFORMERNAME>Jungkook</PERFORMERNAME>
    </Performer>
    <Performer>
      <PERFORMERID>99-TH</PERFORMERID>
      <PERFORMERNAME>Taehyung V</PERFORMERNAME>
    </Performer>
  </Event>
  <Event>
    <EVENTNAME>lost frequencies</EVENTNAME>
    <Performer>
      <PERFORMERID>130-MC</PERFORMERID>
      <PERFORMERNAME>Matthieu Chedid</PERFORMERNAME>
    </Performer>
  </Event>
</EventInfo>
```

```
2 xmlroot(xmlelement("ReviewInfo",xmlagg(xmlelement("Review",xmlattributes(r.reviewID
3 as "reviewID"),xmlelement("Customer",xmlattributes(r.customerRef.userID as
```


4

```
"ID"),xmlelement(customerRef,r.customerRef.customerName)),xmlelement("eventRef",xmlforest(
r.eventRef.eventName,
```

5

```
r.eventRef.eventDate)),xmlelement(starRating,r.starRating),xmlelement(userReview,r.userReview))),version
```

6 '1.0', standalone yes) as doc from Review r;

DOC

```
-----
<?xml version="1.0" standalone="yes"?>
<ReviewInfo>
  <Review reviewID="1">
    <Customer ID="ahmad_rias">
      <CUSTOMERREF>ahmad rias</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>Jubilee kpop</EVENTNAME>
      <EVENTDATE>2024-02-23</EVENTDATE>
    </eventRef>
    <STARRATING>3</STARRATING>
    <USERREVIEW>good..pretty much satisfied</USERREVIEW>
  </Review>
  <Review reviewID="5">
    <Customer ID="ahmad_rias">
      <CUSTOMERREF>ahmad rias</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>lost frequencies</EVENTNAME>
      <EVENTDATE>2024-02-08</EVENTDATE>
    </eventRef>
    <STARRATING>0</STARRATING>
    <USERREVIEW>very bad experience</USERREVIEW>
  </Review>
  <Review reviewID="6">
    <Customer ID="akram_sis">
      <CUSTOMERREF>akram sis</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>lost frequencies</EVENTNAME>
      <EVENTDATE>2024-02-08</EVENTDATE>
    </eventRef>
    <STARRATING>0</STARRATING>
    <USERREVIEW>horrible</USERREVIEW>
  </Review>
  <Review reviewID="2">
    <Customer ID="akram_sis">
      <CUSTOMERREF>akram sis</CUSTOMERREF>
    </Customer>
    <eventRef>
```

```

    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <EVENTDATE>2024-02-23</EVENTDATE>
  </eventRef>
  <STARRATING>1</STARRATING>
  <USERREVIEW>not good</USERREVIEW>
</Review>
<Review reviewID="3">
  <Customer ID="ros_bios">
    <CUSTOMERREF>ros bios</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <EVENTDATE>2024-02-23</EVENTDATE>
  </eventRef>
  <STARRATING>5</STARRATING>
  <USERREVIEW>Really Good</USERREVIEW>
</Review>

```

DOC

```

<Review reviewID="4">
  <Customer ID="ros_bios">
    <CUSTOMERREF>ros bios</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>American Girl</EVENTNAME>
    <EVENTDATE>2023-02-12</EVENTDATE>
  </eventRef>
  <STARRATING>5</STARRATING>
  <USERREVIEW>Really Good</USERREVIEW>
</Review>
</ReviewInfo>

```

SQL>

SQL> select

2

```

xmlroot(xmlelement("eventInfo",xmlagg(xmlelement("eventlist",xmlattributes(t.eventRef.eventID
3 as
4 "eventID"),xmlagg(xmlelement("client",xmlattributes(t.orderRef.customerRef.userID
5 as "clientID"),xmlforest(t.orderRef.customerRef.customerName as
6 "Name",t.orderRef.customerRef.phoneNumber as "phoneNumber"))))),version
7 '1.0',standalone yes) as doc from Ticket t group by t.eventRef.eventID;

```

DOC

```

<?xml version="1.0" standalone="yes"?>
<eventInfo>
  <eventlist eventID="128-JB-240223">
    <client/>

```

```

<client clientID="akram_sis">
  <Name>akram sis</Name>
  <phoneNumber>4678824699</phoneNumber>
</client>
<client clientID="ahmad_rias">
  <Name>ahmad rias</Name>
  <phoneNumber>4367924622</phoneNumber>
</client>
<client clientID="akram_sis">
  <Name>akram sis</Name>
  <phoneNumber>4678824699</phoneNumber>
</client>
<client clientID="ros_bios">
  <Name>ros bios</Name>
  <phoneNumber>4647822499</phoneNumber>
</client>
<client clientID="akram_sis">
  <Name>akram sis</Name>
  <phoneNumber>4678824699</phoneNumber>
</client>
<client clientID="ahmad_rias">
  <Name>ahmad rias</Name>
  <phoneNumber>4367924622</phoneNumber>
</client>
</eventlist>
<eventlist eventID="196-LF-240208">
  <client clientID="ahmad_rias">
    <Name>ahmad rias</Name>
    <phoneNumber>4367924622</phoneNumber>
  </client>
  <client clientID="akram_sis">
    <Name>akram sis</Name>
    <phoneNumber>4678824699</phoneNumber>
  </client>
</eventlist>
<eventlist eventID="96-AG-230212">
  <client clientID="ros_bios">
    <Name>ros bios</Name>
    <phoneNumber>4647822499</phoneNumber>
  </client>
  <client clientID="ros_bios">
    <Name>ros bios</Name>
    <phoneNumber>4647822499</phoneNumber>
  </client>
</eventlist>
</eventInfo>

```

SQL>

```

SQL>
SQL>
SQL> SELECT XMLRoot(
2      XMLElement("Venue",
3      XMLForest(
4      v.venueID AS "VenueID",
5      v.venueName AS "VenueName",
6      v.location AS "VenueLocation",
7      (SELECT XMLAgg(
8      XMLElement("Event",
9      XMLForest(
10     e.eventID AS "EventID",
11     e.eventName AS "EventName"
12     )
13     )
14     )
15     FROM Event e
16     WHERE e.venueRef.venueID = v.venueID
17     ) AS "VenueEvents"
18     )
19     ),
20     VERSION '1.0', STANDALONE YES
21     ) AS "Query7"
22 FROM Venue v
23 WHERE v.venueID = 'SA';

```

Query7

```

-----
<?xml version="1.0" standalone="yes"?>
<Venue>
  <VenueID>SA</VenueID>
  <VenueName>Scotiabank Arena</VenueName>
  <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
  <VenueEvents>
    <Event>
      <EventID>128-JB-240223</EventID>
      <EventName>Jubilee kpop</EventName>
    </Event>
    <Event>
      <EventID>196-LF-240208</EventID>
      <EventName>lost frequencies</EventName>
    </Event>
  </VenueEvents>
</Venue>

```

```

SQL>
SQL>
SQL> select xmlroot(xml element("TicketInfo", xmlagg(xml element("Ticket",
2  xml attributes(t.ticketID AS "TicketID"), xml element("Seat",

```

```

3 xmlattributes(t.seatRef.seatID AS "SeatID"),xmlelement("Venue",
4 xmlforest(t.seatRef.venueRef.venueID AS "VenueID",
5 t.seatRef.venueRef.venueName AS "VenueName"))),version '1.0', standalone
6 yes) AS Query8 from Ticket t;

```

QUERY8

```

<?xml version="1.0" standalone="yes"?>
<TicketInfo>
  <Ticket TicketID="SAJB-240223-A5">
    <Seat SeatID="SAA5"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-B127">
    <Seat SeatID="SAB127"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-B128">
    <Seat SeatID="SAB128"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-B129">
    <Seat SeatID="SAB129"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="BCAG-230212-D568">
    <Seat SeatID="BCD568"/>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="BCAG-230212-D569">
    <Seat SeatID="BCD569"/>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
    </Venue>
  </Ticket>

```

```
</Ticket>
<Ticket TicketID="BCAG-230212-D570">
  <Seat SeatID="BCD570"/>
  <Venue>
    <VenueID>BC</VenueID>
    <VenueName>BC Place</VenueName>
  </Venue>
</Ticket>
<Ticket TicketID="SAJB-240223-C287">
  <Seat SeatID="SAC287"/>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
  </Venue>
```

QUERY8

```
</Ticket>
<Ticket TicketID="SAJB-240223-C288">
  <Seat SeatID="SAC288"/>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
  </Venue>
</Ticket>
<Ticket TicketID="SALF-240208-C288">
  <Seat SeatID="SAC288"/>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
  </Venue>
</Ticket>
<Ticket TicketID="SAJB-240223-C289">
  <Seat SeatID="SAC289"/>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
  </Venue>
</Ticket>
<Ticket TicketID="SALF-240208-C289">
  <Seat SeatID="SAC289"/>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
  </Venue>
</Ticket>
</TicketInfo>
```

SQL>

```

SQL> select xmlroot(xmlelement("BusyBuzzEvents", xmlagg(xmlelement("Event",
2  xmlattributes(t.eventRef.eventName AS "EventName"),
3  xmlagg(xmlelement("Ticket", xmlattributes(t.ticketID AS "TicketID"),
4  xmlforest(t.ticketPrice as "TicketPrice", t.ticketStatus as
5  "TicketStatus"))))), version '1.0', standalone yes) AS Query9 from Ticket
6  t WHERE t.eventRef.eventOrganizerRef.orgName = 'Busy Buzz' group by
7  t.eventRef.eventName;

```

QUERY9

```

-----
<?xml version="1.0" standalone="yes"?>
<BusyBuzzEvents>
  <Event EventName="American Girl">
    <Ticket TicketID="BCAG-230212-D568">
      <TicketPrice>190</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
    <Ticket TicketID="BCAG-230212-D570">
      <TicketPrice>190</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
    <Ticket TicketID="BCAG-230212-D569">
      <TicketPrice>190</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </Event>
  <Event EventName="lost frequencies">
    <Ticket TicketID="SALF-240208-C288">
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
    <Ticket TicketID="SALF-240208-C289">
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </Event>
</BusyBuzzEvents>

```

SQL>

SQL>

```

SQL> select xmlroot(xmlelement("VenuePerformers", xmlagg(xmlelement("Venue",
2  xmlattributes(pd.eventRef.venueRef.venueName AS "VenueName"),
3  xmlagg(xmlelement("Performer", xmlattributes(pd.performerRef.performerID
4  AS "PerformerID"), xmlforest(pd.performerRef.performerName AS
5  "PerformerName", pd.performerDetail AS "Showtime"))))), version '1.0',
6  standalone yes) AS Query10 from PerformerDetail pd group by
7  pd.eventRef.venueRef.venueName;

```

QUERY10

```

-----
<?xml version="1.0" standalone="yes"?>
<VenuePerformers>
  <Venue VenueName="BC Place">
    <Performer PerformerID="125-AG">
      <PerformerName>Arina Grande</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="103-NM">
      <PerformerName>Nike Minaj</PerformerName>
      <Showtime>Time is 8:00 pm</Showtime>
    </Performer>
  </Venue>
  <Venue VenueName="Scotiabank Arena">
    <Performer PerformerID="98-JK">
      <PerformerName>Jungkook</PerformerName>
      <Showtime>Time is 8:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="130-MC">
      <PerformerName>Matthieu Chedid</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="99-TH">
      <PerformerName>Taehyung V</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
  </Venue>
</VenuePerformers>

```

```

SQL>
SQL> SELECT XMLRoot(
2      XMLElement("SeatAndVenueDetails",
3      XMLForest(
4      XMLElement("Seat",
5      XMLForest(
6      s.seatID AS "SeatID",
7      s.seatType AS "SeatType",
8      s.seatLocation AS "SeatLocation"
9      )
10     ) AS "SeatDetails",
11     XMLElement("Venue",
12     XMLForest(
13     v.venueID AS "VenueID",
14     v.venueName AS "VenueName",
15     v.location AS "VenueLocation"
16     )
17     ) AS "VenueDetails"
18   )
19   ),

```



```

20      VERSION '1.0', STANDALONE YES
21    ) AS "Query11"
22 FROM Seat s, Venue v
23 WHERE s.venueRef.venueID = v.venueID;

```

Query11

```

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>BCD568</SeatID>
      <SeatType>premium</SeatType>
      <SeatLocation>D568</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
      <VenueLocation>777 Pacific Blvd Vancouver, BC</VenueLocation>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

```

```

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>BCD570</SeatID>
      <SeatType>premium</SeatType>
      <SeatLocation>D570</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
      <VenueLocation>777 Pacific Blvd Vancouver, BC</VenueLocation>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

```

```

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>BCD569</SeatID>
      <SeatType>premium</SeatType>
      <SeatLocation>D569</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
      <VenueLocation>777 Pacific Blvd Vancouver, BC</VenueLocation>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

```

```
</Seat>
</SeatDetails>
<VenueDetails>
  <Venue>
    <VenueID>BC</VenueID>
    <VenueName>BC Place</VenueName>
    <VenueLocation>777 Pacific Blvd Vancouver, BC</VenueLocation>
  </Venue>
</VenueDetails>
</SeatAndVenueDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
```

Query11

```
<Seat>
  <SeatID>RCB58</SeatID>
  <SeatType>executive</SeatType>
  <SeatLocation>B258</SeatLocation>
</Seat>
</SeatDetails>
<VenueDetails>
  <Venue>
    <VenueID>RC</VenueID>
    <VenueName>Rogers Centre</VenueName>
    <VenueLocation>1 Blue Jays Way, Toronto, ON M5V1J1</VenueLocation>
  </Venue>
</VenueDetails>
</SeatAndVenueDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAC288</SeatID>
      <SeatType>theatre</SeatType>
      <SeatLocation>C5288</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
      <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>
```

```

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAC289</SeatID>
      <SeatType>theatre</SeatType>
      <SeatLocation>C5289</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
      <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

```

```

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAB129</SeatID>
      <SeatType>theatre</SeatType>

```

Query11

```

  <SeatLocation>B129</SeatLocation>
</Seat>
</SeatDetails>
<VenueDetails>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
    <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
  </Venue>
</VenueDetails>
</SeatAndVenueDetails>

```

```

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAB128</SeatID>
      <SeatType>theatre</SeatType>
      <SeatLocation>B128</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>

```

```
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
    <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
  </Venue>
</VenueDetails>
</SeatAndVenueDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAB127</SeatID>
      <SeatType>theatre</SeatType>
      <SeatLocation>B127</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
      <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAC287</SeatID>
      <SeatType>theatre</SeatType>
      <SeatLocation>C5287</SeatLocation>
    </Seat>
  </SeatDetails>
```

Query11

```
-----
<VenueDetails>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
    <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
  </Venue>
</VenueDetails>
</SeatAndVenueDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
```

```

    <SeatID>SAA5</SeatID>
    <SeatType>executive</SeatType>
    <SeatLocation>A15</SeatLocation>
  </Seat>
</SeatDetails>
<VenueDetails>
  <Venue>
    <VenueID>SA</VenueID>
    <VenueName>Scotiabank Arena</VenueName>
    <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
  </Venue>
</VenueDetails>
</SeatAndVenueDetails>

```

11 rows selected.

SQL>

```

SQL> SELECT XMLRoot(
2      XMLElement("TicketAndEventDetails",
3        XMLForest(
4          XMLElement("Ticket",
5            XMLForest(
6              t.ticketID AS "TicketID",
7              t.ticketPrice AS "TicketPrice",
8              t.ticketStatus AS "TicketStatus"
9            )
10         ) AS "TicketDetails",
11        XMLElement("Event",
12          XMLForest(
13            e.eventID AS "EventID",
14            e.eventName AS "EventName",
15            e.eventDate AS "EventDate",
16            e.eventDescription AS "EventDescription"
17          )
18        ) AS "EventDetails"
19      )
20    ),
21    VERSION '1.0', STANDALONE YES
22  ) AS "Query12"
23 FROM Ticket t, Event e
24 WHERE t.eventRef.eventID = e.eventID;

```

Query12

```

-----
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-C289</TicketID>

```

```
    <TicketPrice>520</TicketPrice>
    <TicketStatus>1</TicketStatus>
  </Ticket>
</TicketDetails>
<EventDetails>
  <Event>
    <EventID>128-JB-240223</EventID>
    <EventName>Jubilee kpop</EventName>
    <EventDate>2024-02-23</EventDate>
    <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
  </Event>
</EventDetails>
</TicketAndEventDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-A5</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-JB-240223</EventID>
      <EventName>Jubilee kpop</EventName>
      <EventDate>2024-02-23</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-C287</TicketID>
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-JB-240223</EventID>
      <EventName>Jubilee kpop</EventName>
      <EventDate>2024-02-23</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
```

</TicketAndEventDetails>

Query12

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-B128</TicketID>
      <TicketPrice>2000</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-JB-240223</EventID>
      <EventName>Jubilee kpop</EventName>
      <EventDate>2024-02-23</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-B129</TicketID>
      <TicketPrice>2000</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-JB-240223</EventID>
      <EventName>Jubilee kpop</EventName>
      <EventDate>2024-02-23</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-C288</TicketID>
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
```

```
</Ticket>
</TicketDetails>
<EventDetails>
  <Event>
    <EventID>128-JB-240223</EventID>
    <EventName>Jubilee kpop</EventName>
    <EventDate>2024-02-23</EventDate>
    <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
  </Event>
</EventDetails>
</TicketAndEventDetails>
```

Query12

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAJB-240223-B127</TicketID>
      <TicketPrice>2000</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-JB-240223</EventID>
      <EventName>Jubilee kpop</EventName>
      <EventDate>2024-02-23</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SALF-240208-C289</TicketID>
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>196-LF-240208</EventID>
      <EventName>lost frequencies</EventName>
      <EventDate>2024-02-08</EventDate>
      <EventDescription>Lost Frequencies SURF MESA</EventDescription>
    </Event>
```



```
</EventDetails>
</TicketAndEventDetails>

<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SALF-240208-C288</TicketID>
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>196-LF-240208</EventID>
      <EventName>lost frequencies</EventName>
      <EventDate>2024-02-08</EventDate>
      <EventDescription>Lost Frequencies SURF MESA</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

Query12

```
-----
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>BCAG-230212-D570</TicketID>
      <TicketPrice>190</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>96-AG-230212</EventID>
      <EventName>American Girl</EventName>
      <EventDate>2023-02-12</EventDate>
      <EventDescription>American Girl characters pop</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

```
<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>BCAG-230212-D568</TicketID>
      <TicketPrice>190</TicketPrice>
```

```

    <TicketStatus>1</TicketStatus>
  </Ticket>
</TicketDetails>
<EventDetails>
  <Event>
    <EventID>96-AG-230212</EventID>
    <EventName>American Girl</EventName>
    <EventDate>2023-02-12</EventDate>
    <EventDescription>American Girl characters pop</EventDescription>
  </Event>
</EventDetails>
</TicketAndEventDetails>

```

```

<?xml version="1.0" standalone="yes"?>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>BCAG-230212-D569</TicketID>
      <TicketPrice>190</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>96-AG-230212</EventID>
      <EventName>American Girl</EventName>
      <EventDate>2023-02-12</EventDate>
      <EventDescription>American Girl characters pop</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>

```

12 rows selected.

```

SQL>
SQL> SELECT XMLRoot(
2      XMLElement("SeatAndTicketDetails",
3      XMLAgg(
4      XMLElement("SeatAndTicket",
5      XMLForest(
6      s.seatID AS "SeatID",
7      s.seatType AS "SeatType",
8      s.seatLocation AS "SeatLocation",
9      (SELECT XMLForest(
10     t.ticketID AS "TicketID",
11     t.ticketPrice AS "TicketPrice",
12     t.ticketStatus AS "TicketStatus"
13     )
14     FROM Ticket t

```

```

15             WHERE t.seatRef.seatID = s.seatID
16         ) AS "TicketDetails"
17     )
18 )
19 )
20 ),
21 VERSION '1.0', STANDALONE YES
22 ) AS "Query13"
23 FROM Seat s
24 WHERE s.seatID = 'SAA5'
25 GROUP BY s.seatID, s.seatType, s.seatLocation;

```

Query13

```

<?xml version="1.0" standalone="yes"?>
<SeatAndTicketDetails>
  <SeatAndTicket>
    <SeatID>SAA5</SeatID>
    <SeatType>executive</SeatType>
    <SeatLocation>A15</SeatLocation>
    <TicketDetails>
      <TicketID>SAJB-240223-A5</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </TicketDetails>
  </SeatAndTicket>
</SeatAndTicketDetails>

```

SQL>

```

SQL> select xmlroot(xmlelement("UnsoldTicketList",xmlagg(
2   xmlelement("UnsoldTicket",xmlattributes(t.ticketID as "ticketID"),
3   xmlagg(xmlelement("Event", xmlattributes(t.eventRef.eventID as
4   "eventID"),
5   xmlforest(t.eventRef.eventName AS "Event")
6   )))),VERSION '1.0', STANDALONE YES) as "UnsoldTicketList" from Ticket t where
t.ticketStatus=0 group by t.ticketID;

```

UnsoldTicketList

```

<?xml version="1.0" standalone="yes"?>
<UnsoldTicketList>
  <UnsoldTicket ticketID="BCAG-230212-D569">
    <Event eventID="96-AG-230212">
      <Event>American Girl</Event>
    </Event>
  </UnsoldTicket>
  <UnsoldTicket ticketID="SAJB-240223-A5">
    <Event eventID="128-JB-240223">
      <Event>Jubilee kpop</Event>
    </Event>
  </UnsoldTicket>
</UnsoldTicketList>

```

```
</Event>
</UnsoldTicket>
</UnsoldTicketList>
```

SQL>

```
SQL> select xmlroot(
2      xmlelement("CustomerList",
3      xmlagg(
4 xmlelement("Customer",xmlattributes(t.orderRef.customerRef.userID as "cID"),
5      xmlagg(xmlelement("Event",xmlattributes(t.eventRef.eventID as "eventID"),
6      xmlforest(t.eventRef.eventName as
7 "eventName",t.ticketID as "ticketNumber",t.getPrice() as "price",
8 t.orderRef.bookingStatus as "bookingStatus")))),VERSION '1.0', STANDALONE YES) as
"CustomerOrderList"
9 from Ticket t where t.ticketStatus=1 group by
10 t.orderRef.customerRef.userID;
```

CustomerOrderList

```
-----
<?xml version="1.0" standalone="yes"?>
<CustomerList>
  <Customer cID="ahmad_rias">
    <Event eventID="128-JB-240223">
      <eventName>Jubilee kpop</eventName>
      <ticketNumber>SAJB-240223-B127</ticketNumber>
      <price>2000</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="196-LF-240208">
      <eventName>lost frequencies</eventName>
      <ticketNumber>SALF-240208-C288</ticketNumber>
      <price>520</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="128-JB-240223">
      <eventName>Jubilee kpop</eventName>
      <ticketNumber>SAJB-240223-C288</ticketNumber>
      <price>520</price>
      <bookingStatus>1</bookingStatus>
    </Event>
  </Customer>
  <Customer cID="akram_sis">
    <Event eventID="128-JB-240223">
      <eventName>Jubilee kpop</eventName>
      <ticketNumber>SAJB-240223-B128</ticketNumber>
      <price>2000</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="196-LF-240208">
```

```

    <eventName>lost frequencies</eventName>
    <ticketNumber>SALF-240208-C289</ticketNumber>
    <price>520</price>
    <bookingStatus>1</bookingStatus>
  </Event>
  <Event eventID="128-JB-240223">
    <eventName>Jubilee kpop</eventName>
    <ticketNumber>SAJB-240223-C289</ticketNumber>
    <price>520</price>
    <bookingStatus>1</bookingStatus>
  </Event>
  <Event eventID="128-JB-240223">
    <eventName>Jubilee kpop</eventName>
    <ticketNumber>SAJB-240223-C287</ticketNumber>
    <price>520</price>
    <bookingStatus>1</bookingStatus>
  </Event>
</Customer>
<Customer cID="ros_bios">
  <Event eventID="128-JB-240223">
    <eventName>Jubilee kpop</eventName>
    <ticketNumber>SAJB-240223-B129</ticketNumber>
    <price>2000</price>
    <bookingStatus>1</bookingStatus>
  </Event>
  <Event eventID="96-AG-230212">
    <eventName>American Girl</eventName>

```

CustomerOrderList

```

-----
    <ticketNumber>BCAG-230212-D570</ticketNumber>
    <price>190</price>
    <bookingStatus>1</bookingStatus>
  </Event>
  <Event eventID="96-AG-230212">
    <eventName>American Girl</eventName>
    <ticketNumber>BCAG-230212-D568</ticketNumber>
    <price>190</price>
    <bookingStatus>1</bookingStatus>
  </Event>
</Customer>
</CustomerList>

```

```

SQL>
SQL>
SQL>
SQL>
SQL>
SQL>

```

```
SQL> spool off
```

SCRIPT SHOWING EXECUTION OF PART 3 OF THE ASSIGNMENT

Script started on Wed Apr 3 16:39:38 2024

```
]0;zhourong@sit:~    [?1034h[zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i
```

```
[?1034h[zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i  
tec.yorku.ca:1521:studb10g" -rowsetTag "UserAkramSis" -rowTag "TicketDetails" "select t.  
ticketID, t.eventRef.eventName,t.ticketPrice from Ticket t where t.orderRef.customerRef.  
customerName='akram sis'"
```

```
<?xml version = '1.0'?>
```

```
<UserAkramSis>
```

```
  <TicketDetails num="1">
```

```
    <TICKETID>SAJB-240223-B128</TICKETID>
```

```
    <EVENTREF.EVENTNAME>Jubilee kpop</EVENTREF.EVENTNAME>
```

```
    <TICKETPRICE>2000</TICKETPRICE>
```

```
  </TicketDetails>
```

```
  <TicketDetails num="2">
```

```
    <TICKETID>SAJB-240223-C287</TICKETID>
```

```
    <EVENTREF.EVENTNAME>Jubilee kpop</EVENTREF.EVENTNAME>
```

```
    <TICKETPRICE>520</TICKETPRICE>
```

```
  </TicketDetails>
```

```
  <TicketDetails num="3">
```

```
    <TICKETID>SAJB-240223-C289</TICKETID>
```

```
    <EVENTREF.EVENTNAME>Jubilee kpop</EVENTREF.EVENTNAME>
```

```
    <TICKETPRICE>520</TICKETPRICE>
```

```
  </TicketDetails>
```

```
  <TicketDetails num="4">
```

```
    <TICKETID>SALF-240208-C289</TICKETID>
```

```
    <EVENTREF.EVENTNAME>lost frequencies</EVENTREF.EVENTNAME>
```

```
    <TICKETPRICE>520</TICKETPRICE>
```

```
  </TicketDetails>
```

```
</UserAkramSis>
```

```
]0;zhourong@sit:~    [zhourong@sit ~]$
```

```
[zhourong@sit ~]$
```

```
]0;zhourong@sit:~    [zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i
```

```
[zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i  
tec.yorku.ca:1521:studb10g" -rowsetTag "UserRosBios" -rowTag "ReviewRecord" "Select r.ev  
entRef.eventName as EventName, r.userReview as Review, r.starRating as Rating from Revie  
w r Where r.customerRef.customerName = 'ros bios'"
```

```
<?xml version = '1.0'?>
```

```
<UserRosBios>
```

```
  <ReviewRecord num="1">
```

```
    <EVENTNAME>Jubilee kpop</EVENTNAME>
```

```
    <REVIEW>Really Good</REVIEW>
```

```
    <RATING>5</RATING>
```

```
  </ReviewRecord>
```

```
<ReviewRecord num="2">
  <EVENTNAME>American Girl</EVENTNAME>
  <REVIEW>Really Good</REVIEW>
  <RATING>5</RATING>
</ReviewRecord>
</UserRosBios>
```

```
]0:zhourong@sit:~ [zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn
"jdbc:oracle:thin:@sit.i
[zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i
tec.yorku.ca:1521:stadb10g" -rowsetTag "ScotiabankArena" -rowTag "EventDetails" "Select
pd.eventRef.eventName as EventName, pd.performerRef.performerName as PerformerName
from
PerformerDetail pd Where pd.eventRef.venueRef.venueName = 'Scotiabank Arena'"
<?xml version = '1.0'?>
<ScotiabankArena>
  <EventDetails num="1">
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <PERFORMERNAME>Jungkook</PERFORMERNAME>
  </EventDetails>
  <EventDetails num="2">
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <PERFORMERNAME>Taehyung V</PERFORMERNAME>
  </EventDetails>
  <EventDetails num="3">
    <EVENTNAME>lost frequencies</EVENTNAME>
    <PERFORMERNAME>Matthieu Chedid</PERFORMERNAME>
  </EventDetails>
</ScotiabankArena>
```

```
]0:zhourong@sit:~ [zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn
"jdbc:oracle:thin:@sit.i
[zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i
tec.yorku.ca:1521:stadb10g" -rowsetTag "LostFrequenciesEvent" -rowTag "CustomerReview" "
Select r.customerRef.customerName as CustomerName, r.userReview as Review from Review r
Where r.eventRef.eventID = '196-LF-240208'"
<?xml version = '1.0'?>
<LostFrequenciesEvent>
  <CustomerReview num="1">
    <CUSTOMERNAME>ahmad rias</CUSTOMERNAME>
    <REVIEW>very bad experience</REVIEW>
  </CustomerReview>
  <CustomerReview num="2">
    <CUSTOMERNAME>akram sis</CUSTOMERNAME>
    <REVIEW>horrible</REVIEW>
  </CustomerReview>
</LostFrequenciesEvent>
```

```
]0:zhourong@sit:~ [zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn
"jdbc:oracle:thin:@sit.i
```



```
[zhourong@sit ~]$ OracleXML getXML -user "grp2/grp2there" -conn "jdbc:oracle:thin:@sit.i
tec.yorku.ca:1521:stadb10g" -rowsetTag "JubileeKpop" -rowTag "OrgDetails" "Select e.even
tOrganizerRef.orgName as OrganizerName, e.eventOrganizerRef.phoneNumber as
OrganizerPhon
eNo from Event e Where e.eventName = 'Jubilee kpop'"
<?xml version = '1.0'?>
<JubileeKpop>
  <OrgDetails num="1">
    <ORGANIZERNAME>Hungry wines</ORGANIZERNAME>
    <ORGANIZERPHONENO>4367362422</ORGANIZERPHONENO>
  </OrgDetails>
</JubileeKpop>

]0;zhourong@sit:~ [zhourong@sit ~]$ exit
[zhourong@sit ~]$ exit
exit
```

Script done on Wed Apr 3 16:43:58 2024

SPOOL FOR PART 5 OF ASSIGNMENT

```
SQL> set long 32000
SQL> set pagesize 60
SQL> set echo on
SQL> @part_three.sql
SQL> xquery
  2 let $c := doc('/public/grp20242/orderInfo.xml')
  3 for $m in $c/OrderInfo/Order
  4 where $m/TO_DATE = '2026-10-02'
  5 return $m/OrderType/text()
  6 /
```

Result Sequence

Online
In-store

```
SQL>
SQL>
SQL> xquery
  2 let $e := doc('/public/grp20242/eventInfo.xml')
  3 for $d in $e/Events/Event
  4 where $d/DATE = '2024-02-23'
  5 return $d/EVENTNAME/text()
  6 /
```

Result Sequence

Event 1

```
SQL>
SQL> xquery
  2 let $reviews := doc('/public/grp20242/reviewInfo1.xml')
  3 for $review in $reviews/ReviewInfo/Review
  4 where $review/eventRef/PERFORMERNAME = 'Lost Frequencies'
  5 return $review
  6 /
```

Result Sequence

```
<Review>
  <ReviewID>1</ReviewID>
  <eventRef>
    <EVENTNAME>Event 1</EVENTNAME>
    <PERFORMERNAME>Lost Frequencies</PERFORMERNAME>
  </eventRef>
  <STARRATING>4</STARRATING>
  <userReview>Great performance!</userReview>
</Review>
```

```

<Review>
  <ReviewID>2</ReviewID>
  <eventRef>
    <EVENTNAME>Event 2</EVENTNAME>
    <PERFORMERNAME>Lost Frequencies</PERFORMERNAME>
  </eventRef>
  <STARRATING>5</STARRATING>
  <userReview>Amazing show!</userReview>
</Review>

```

```

<Review>
  <ReviewID>3</ReviewID>
  <eventRef>
    <EVENTNAME>Event 3</EVENTNAME>
    <PERFORMERNAME>Lost Frequencies</PERFORMERNAME>
  </eventRef>
  <STARRATING>3</STARRATING>
  <userReview>Decent performance.</userReview>
</Review>

```

```

SQL>
SQL>
SQL> xquery
2 let $c:=doc('/public/grp20242/reviewInfo.xml')
3 for $m in $c/ReviewInfo/Review
4 where $m/STARRATING < 3
5 return $m/eventRef/EVENTNAME/text()
6 /

```

Result Sequence

```

-----
lost frequencies
lost frequencies
Jubilee kpop

```

```

SQL>
SQL> xquery
2 let $c:=doc('/public/grp20242/reviewInfo.xml')
3 for $m in $c/ReviewInfo/Review
4 where $m/Customer/@ID = 'akram_sis'
5 return <review
6
ID="{ $m/@reviewID }"><eventName>{ $m/eventRef/EVENTNAME/text() }</eventName><starRatin
g>{ $m/STARRATING/text() }</starRating></review>
7 /

```

Result Sequence

```

-----
<review ID="6"><eventName>lost frequencies</eventName><starRating>0</starRating>

```

</review>

<review ID="2"><eventName>Jubilee kpop</eventName><starRating>1</starRating></review>

SQL>

SQL> xquery

```
2 let $c:=doc('/public/grp20242/reviewInfo.xml')
3 for $m in $c/ReviewInfo/Review[eventRef/EVENTNAME = 'American Girl']
4 let $s :=doc('/public/grp20242/customer.xml')
5 for $d in $s/CustomerInfo/Customer
6 where $d/@ID = $m/Customer/@ID
7 return $d/PHONENUMBER/text()
8 /
```

Result Sequence

4647822499

SQL>

SQL> xquery

```
2 let $v:=doc("/public/grp20242/VenuePerformers.xml")
3 for $p in $v/VenuePerformers/Venue/Performer
4 where $p/Showtime = 'Time is 8:00 pm'
5 return $p/PerformerName/text()
6 /
```

Result Sequence

Nike Minaj
Jungkook

SQL>

SQL> xquery

```
2 let $v:=doc("/public/grp20242/VenuePerformers.xml")
3 for $p in $v/VenuePerformers/Venue/Performer
4 where $p/@PerformerID = '98-JK'
5 return $p/PerformerName/text()
6 /
```

Result Sequence

Jungkook

SQL>

SQL> xquery

```
2 let $v:=doc("/public/grp20242/VenuePerformers.xml")
3 for $performeratt in $v/VenuePerformers/Venue/Performer[Showtime = 'Time is 8:00 pm']
4 let $e:=doc("/public/grp20242/EventInfoD.xml")
```

```

5 let $performerele := $performeratt/@PerformerID
6 for $event in $e/EventInfo/Event
7 where $event/Performer/PERFORMERID = $performerele
8 return $event/EVENTNAME/text()
9 /

```

Result Sequence

American Girl
Jubilee kpop

SQL>

SQL>

SQL> xquery

```

2 let $v := doc("/public/grp20242/VenuePerformers.xml")
3 let $performeratt := $v/VenuePerformers/Venue/Performer[@PerformerID = '125-AG']
4 let $e := doc("/public/grp20242/EventInfoD.xml")
5 let $performerele := $performeratt/@PerformerID
6 for $event in $e/EventInfo/Event
7 where $event/Performer/PERFORMERID = $performerele
8 return $event/EVENTNAME/text()
9 /

```

Result Sequence

American Girl

SQL>

SQL>

SQL> xquery

```

2 let $eventName := 'American Girl'
3 let $e := doc("/public/grp20242/EventInfoD.xml")
4 for $event in $e//Event[EVENTNAME = $eventName]
5 where $event/Performer/PERFORMERNAME
6 return $event/Performer/PERFORMERNAME/text()
7 /

```

Result Sequence

Arina Grande
Nike Minaj

SQL>

SQL> xquery

```

2 let $v := doc("/public/grp20242/customer.xml")
3 for $c in $v/CustomerInfo/Customer
4 where $c/PHONENUMBER = '4367924622'
5 return ($c/CUSTOMERNAME/text())
6 /

```

Result Sequence

ahmad rias

SQL>

SQL> xquery

```
2 let $venueName := 'Scotiabank Arena'
3 let $c := doc('/public/grp20242/VenuePerformers.xml')
4 for $venue in $c//Venue
5 where $venue/@VenueName = $venueName
6 return $venue/Performer/PerformerName/text()
7 /
```

Result Sequence

Jungkook

Matthieu Chedid

Taehyung V

SQL>

SQL>

SQL> xquery

```
2 let $venueName := 'Scotiabank Arena'
3 let $venue := doc('/public/grp20242/VenuePerformers.xml')//Venue[@VenueName =
4 $venueName]
5 let $total := sum(
6   for $performer in $venue/Performer
7   let $performerName := $performer/PerformerName/text()
8   let $events := doc('/public/grp20242/EventInfoD.xml')//Event
9   where $events/Performer/PERFORMERNAME = $performerName
10  return count($events)
11 )
12 return $total
13 /
```

Result Sequence

9

SQL>

SQL>

SQL> xquery

```
2 let $r:=doc("/public/grp20242/reviewInfo.xml")
3 for $sr in $r/ReviewInfo/Review[STARRATING < 3]
4 let $c:=doc("/public/grp20242/customer.xml")
5 for $a in $c/CustomerInfo/Customer
6 where $a/@ID = $sr/Customer/@ID
7 return $a/PHONENUMBER/text()
8 /
```

Result Sequence

4367924622

4678824699

4678824699

SQL>

SQL>

SQL>

SQL>

SQL>

SQL>

SQL>

SQL>

SQL> spool off

FILES UPLOADED TO XML DB REPOSITORY (PART 4)

File #1

```
Declare
  ret boolean;
begin
  ret:=
    dbms_xdb.createResource('/public/grp20242/customer.xml',
'<CustomerInfo>
<Customer ID="ahmad_rias">
  <CUSTOMERNAME>ahmad rias</CUSTOMERNAME>
  <PHONENUMBER>4367924622</PHONENUMBER>
</Customer>
<Customer ID="akram_sis">
  <CUSTOMERNAME>akram sis</CUSTOMERNAME>
  <PHONENUMBER>4678824699</PHONENUMBER>
</Customer>
<Customer ID="ros_bios">
  <CUSTOMERNAME>ros bios</CUSTOMERNAME>
  <PHONENUMBER>4647822499</PHONENUMBER>
</Customer>
</CustomerInfo>');
commit;
end;
/
```

File #2

```
Declare
  ret boolean;
begin
  ret:=
    dbms_xdb.createResource('/public/grp20242/reviewInfo.xml',
'<ReviewInfo>
<Review reviewID="1">
  <Customer ID="ahmad_rias">
    <CUSTOMERREF>ahmad rias</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <EVENTDATE>2024-02-23</EVENTDATE>
  </eventRef>
  <STARRATING>3</STARRATING>
  <USERREVIEW>good..pretty much satisfied</USERREVIEW>
</Review>
<Review reviewID="5">
  <Customer ID="ahmad_rias">
    <CUSTOMERREF>ahmad rias</CUSTOMERREF>
  </Customer>
```



```
<eventRef>
  <EVENTNAME>lost frequencies</EVENTNAME>
  <EVENTDATE>2024-02-08</EVENTDATE>
</eventRef>
<STARRATING>0</STARRATING>
<USERREVIEW>very bad experience</USERREVIEW>
</Review>
<Review reviewID="6">
  <Customer ID="akram_sis">
    <CUSTOMERREF>akram sis</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>lost frequencies</EVENTNAME>
    <EVENTDATE>2024-02-08</EVENTDATE>
  </eventRef>
  <STARRATING>0</STARRATING>
  <USERREVIEW>horrible</USERREVIEW>
</Review>
<Review reviewID="2">
  <Customer ID="akram_sis">
    <CUSTOMERREF>akram sis</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <EVENTDATE>2024-02-23</EVENTDATE>
  </eventRef>
  <STARRATING>1</STARRATING>
  <USERREVIEW>not good</USERREVIEW>
</Review>
<Review reviewID="3">
  <Customer ID="ros_bios">
    <CUSTOMERREF>ros bios</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <EVENTDATE>2024-02-23</EVENTDATE>
  </eventRef>
  <STARRATING>5</STARRATING>
  <USERREVIEW>Really Good</USERREVIEW>
</Review>
<Review reviewID="4">
  <Customer ID="ros_bios">
    <CUSTOMERREF>ros bios</CUSTOMERREF>
  </Customer>
  <eventRef>
    <EVENTNAME>American Girl</EVENTNAME>
    <EVENTDATE>2023-02-12</EVENTDATE>
  </eventRef>
  <STARRATING>5</STARRATING>
  <USERREVIEW>Really Good</USERREVIEW>
```

```

    </Review>
</ReviewInfo>');
commit;
end;
/

```

File #3

```

Declare
ret boolean;
begin
ret:=
dbms_xdb.createresource('/public/grp20242/VenuePerformers.xml',
'<VenuePerformers>
  <Venue VenueName="BC Place">
    <Performer PerformerID="125-AG">
      <PerformerName>Arina Grande</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="103-NM">
      <PerformerName>Nike Minaj</PerformerName>
      <Showtime>Time is 8:00 pm</Showtime>
    </Performer>
  </Venue>
  <Venue VenueName="Scotiabank Arena">
    <Performer PerformerID="98-JK">
      <PerformerName>Jungkook</PerformerName>
      <Showtime>Time is 8:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="130-MC">
      <PerformerName>Matthieu Chedid</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="99-TH">
      <PerformerName>Taehyung V</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
  </Venue>
</VenuePerformers>');
commit;
end;
/

```

File #4

```

Declare
ret boolean;
begin
ret:=
dbms_xdb.createresource('/public/grp20242/EventInfoD.xml',

```

```
'<EventInfo>
  <Event>
    <EVENTNAME>American Girl</EVENTNAME>
    <Performer>
      <PERFORMERID>125-AG</PERFORMERID>
      <PERFORMERNAME>Arina Grande</PERFORMERNAME>
    </Performer>
    <Performer>
      <PERFORMERID>103-NM</PERFORMERID>
      <PERFORMERNAME>Nike Minaj</PERFORMERNAME>
    </Performer>
  </Event>
  <Event>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <Performer>
      <PERFORMERID>98-JK</PERFORMERID>
      <PERFORMERNAME>Jungkook</PERFORMERNAME>
    </Performer>
    <Performer>
      <PERFORMERID>99-TH</PERFORMERID>
      <PERFORMERNAME>Taehyung V</PERFORMERNAME>
    </Performer>
  </Event>
  <Event>
    <EVENTNAME>lost frequencies</EVENTNAME>
    <Performer>
      <PERFORMERID>130-MC</PERFORMERID>
      <PERFORMERNAME>Matthieu Chedid</PERFORMERNAME>
    </Performer>
  </Event>
</EventInfo>');
commit;
end;
/
```

PARTICIPATION MARKS:

Derek Hau: 10/10

Rong Zhou: 10/10

Nam Nguyen: 10/10

Tayyaba Riasat: 10/10

Jayden Scott-Douglas: 10/10

Milestone #3

ITEC 4220

Group 2 Members:
Derek Hau, Rong Zhou, Tayyaba Riasat,
Nam Nguyen, Jayden Scott-Douglas

1

PART ONE:

Requests

1. Retrieve customer names and their associated email addresses
2. Show venue names along with their locations
3. Show event organiser names and their corresponding phone numbers
4. Find performers' names for each event. (group by event)
5. Find all reviews information including customer name and eventname and eventDate
6. Show the information of all tickets sold, including information who bought them(group by event)
7. Show event name and id for venue id 5A
8. Find all the tickets, their seats and their venues for all events taking place.
9. Find all tickets for events organised by busy_buzz.
10. Find all performers, their details and which venues they are performing at.
11. Retrieve the venue details and seat details
12. List all events and corresponding tickets
13. Find the seat details and ticket details for a specific seat id 5AA5
14. Find all the unsold tickets with the event name.
15. List tickets, ticket Price and booking status associated with each customer. (grouped by customer)
16. Find all the ticket details and the eventName of all the tickets bought by "akram sis":
17. Find all reviews written by "ros bios".
18. Find the event names and the performers that will be at Scotiabank Arena.
19. Find all the names and reviews for the event with eventID = '196-LF-240208'.
20. Find the orgName and the phone number of the event organisers of the event with eventName = 'Jubilee kpop'.
21. Find the order that takes place on Oct, 02, 2026:
22. Find the event, which took place "23-Feb-2024"
23. Find all reviews for "lost frequencies"
24. Find the event, which has a star rating lower than 3:
25. Find all reviews from customer id "akram sis"
26. Find the customer's phone number, who writes a review for the event 'American Girl'.
27. Find the performers which have a showtime of 8:00 pm.
28. Find the performer's name with PerformerID = '98-JK'.
29. Find the event names of events with a showtime of 8:00 pm.
30. Find events with performer ID 125-AG
31. Find the performer(s) that perform at American Girl
32. Return customer name that belongs to phone number 4367924622
33. Find performer that is performing at venue Scotiabank Arena
34. Count the number of events that take place at Scotiabank arena
35. For all customers, find the reviews where they left a star rating of less than 3.

2

PART TWO:

Formulate SQL Statements With Oracle XML and Return XML Documents

3

1. Retrieve customer names
and their associated email
addresses (Group by):

```
SELECT XMLRoot(
  XMLElement("Customers",
    XMLAgg(
      XMLElement("Customer",
        XMLForest(
          c.customerName AS "Name",
          c.emailAddress AS "Email",
          c.phoneNumber AS
"Phone_Number",
          c.homeAddress AS "Address"
        )
      )
    ),
    VERSION '1.0',
    STANDALONE YES
  ) AS "Customer_Info"
FROM Customer c
GROUP BY c.customerName;
```

```
Customer_Info
-----
<?xml version="1.0" standalone="yes"?>
<Customers>
  <Customer>
    <Name>ahmad rias</Name>
    <Email>ahmadrias@gmail.com</Email>
    <Phone_Number>467954602</Phone_Number>
    <Address>2565 Hazel St apt687 Burnaby BC V5H4T1</Address>
  </Customer>
</Customers>

<?xml version="1.0" standalone="yes"?>
<Customers>
  <Customer>
    <Name>akram sis</Name>
    <Email>akransis@gmail.com</Email>
    <Phone_Number>4678824699</Phone_Number>
    <Address>2565 Finch Ave W, unit3, North York, ON M9W2G1</Address>
  </Customer>
</Customers>

<?xml version="1.0" standalone="yes"?>
<Customers>
  <Customer>
    <Name>ros bios</Name>
    <Email>rosbios@gmail.com</Email>
    <Phone_Number>4647822499</Phone_Number>
    <Address>528 Bryne Dr, Unit 7, Barrie ON L4N9P6</Address>
  </Customer>
</Customers>
```

4

2. Show venue names along with their locations (Group By):

```
SELECT XMLRoot(
  XMLElement("Venues",
    XMLAgg(
      XMLElement("Venue",
        XMLForest(
          v.venueName AS "Name",
          v.location AS "Location",
          v.capacity AS "Capacity"
        )
      )
    )
  ),
  VERSION '1.0',
  STANDALONE YES
) AS "Venue_Info"
FROM Venue v
GROUP BY v.venueName;
```

```
Venue_Info
-----
<?xml version="1.0" standalone="yes"?>
<Venues>
  <Venue>
    <Name>BC Place</Name>
    <Location>777 Pacific Blvd Vancouver, BC</Location>
    <Capacity>64500</Capacity>
  </Venue>
</Venues>

<?xml version="1.0" standalone="yes"?>
<Venues>
  <Venue>
    <Name>Rogers Centre</Name>
    <Location>1 Blue Jays Way, Toronto, ON M5V1J1</Location>
    <Capacity>41500</Capacity>
  </Venue>
</Venues>

<?xml version="1.0" standalone="yes"?>
<Venues>
  <Venue>
    <Name>Scotiabank Arena</Name>
    <Location>40 Bay St., Toronto, ON M5J2X2</Location>
    <Capacity>19800</Capacity>
  </Venue>
</Venues>
```

5

3. Show event organiser names and their corresponding phone numbers (Group by)

```
SELECT XMLRoot(
  XMLElement("Event_Organizers",
    XMLAgg(
      XMLElement("Event_Organizer",
        XMLForest(
          eo.orgName AS "Name",
          eo.phoneNumber AS
            "Phone_Number"
        )
      )
    )
  ),
  VERSION '1.0',
  STANDALONE YES
) AS "Event_Organizers_Info"
FROM EventOrganizer eo
GROUP BY eo.orgName;
```

```
Event_Organizers_Info
-----
<?xml version="1.0" standalone="yes"?>
<Event_Organizers>
  <Event_Organizer>
    <Name>Busy Buzz</Name>
    <Phone_Number>4677364899</Phone_Number>
  </Event_Organizer>
</Event_Organizers>

<?xml version="1.0" standalone="yes"?>
<Event_Organizers>
  <Event_Organizer>
    <Name>Funzone</Name>
    <Phone_Number>4647362899</Phone_Number>
  </Event_Organizer>
</Event_Organizers>

<?xml version="1.0" standalone="yes"?>
<Event_Organizers>
  <Event_Organizer>
    <Name>Hungry wines</Name>
    <Phone_Number>4367362422</Phone_Number>
  </Event_Organizer>
</Event_Organizers>
```

6

4. Find performers' names for each event.(group by event):
select

```
xmlroot(xmlElement("EventInfo",xmlagg(xmlElement("Event",xmlElement(eventName,pd.eventRef.eventName),xmlagg(xmlElement("Performer",xmlforest(pd.performerRef.performerID,pd.performerRef.performerName)))))), version '1.0', standalone yes) as doc from PerformerDetail pd group by pd.eventRef.eventName;
```

```
DOC
<?xml version="1.0" standalone="yes"?>
<EventInfo>
  <Event>
    <EVENTNAME>American Girl</EVENTNAME>
    <Performer>
      <PERFORMERID>125-AG</PERFORMERID>
      <PERFORMERNAME>Ariana Grande</PERFORMERNAME>
    </Performer>
    <Performer>
      <PERFORMERID>103-NM</PERFORMERID>
      <PERFORMERNAME>Nile Mlnaj</PERFORMERNAME>
    </Performer>
  </Event>
  <Event>
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <Performer>
      <PERFORMERID>98-JK</PERFORMERID>
      <PERFORMERNAME>Jungkook</PERFORMERNAME>
    </Performer>
    <Performer>
      <PERFORMERID>99-TH</PERFORMERID>
      <PERFORMERNAME>Taehyung V</PERFORMERNAME>
    </Performer>
  </Event>
  <Event>
    <EVENTNAME>lost frequencies</EVENTNAME>
    <Performer>
      <PERFORMERID>130-MC</PERFORMERID>
      <PERFORMERNAME>Matthieu Chedid</PERFORMERNAME>
    </Performer>
  </Event>
</EventInfo>
```

7

5. Find all reviews information including customer name and eventname and eventDate

```
select
xmlroot(xmlElement("ReviewInfo",xmlagg(xmlElement("Review",xmlAttributes(r.reviewID as "reviewID"),xmlElement("Customer",xmlAttributes(r.customerRef.userID as "ID"),xmlElement(customerRef,r.customerRef.customerName)),xmlElement("eventRef",xmlforest(r.eventRef.eventName,r.eventRef.eventDate)),xmlElement(starRating,r.starRating),xmlElement(userReview,r.userReview))))),version '1.0', standalone yes) as doc from Review r;
```

```
DOC
<?xml version="1.0" standalone="yes"?>
<ReviewInfo>
  <Review reviewID="1">
    <Customer ID="ahmad_rias">
      <CUSTOMERREF>ahmad rias</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>Jubilee kpop</EVENTNAME>
      <EVENTDATE>2024-02-23</EVENTDATE>
    </eventRef>
    <STARRATING>3</STARRATING>
    <USERREVIEW>good..pretty much satisfied</USERREVIEW>
  </Review>
  <Review reviewID="5">
    <Customer ID="ahmad_rias">
      <CUSTOMERREF>ahmad rias</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>lost frequencies</EVENTNAME>
      <EVENTDATE>2024-02-08</EVENTDATE>
    </eventRef>
    <STARRATING>8</STARRATING>
    <USERREVIEW>very bad experience</USERREVIEW>
  </Review>
  <Review reviewID="6">
    <Customer ID="akram_sis">
      <CUSTOMERREF>akram sis</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>lost frequencies</EVENTNAME>
      <EVENTDATE>2024-02-08</EVENTDATE>
    </eventRef>
    <STARRATING>8</STARRATING>
    <USERREVIEW>horrible</USERREVIEW>
  </Review>
  <Review reviewID="2">
    <Customer ID="akram_sis">
      <CUSTOMERREF>akram sis</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>Jubilee kpop</EVENTNAME>
      <EVENTDATE>2024-02-23</EVENTDATE>
    </eventRef>
    <STARRATING>1</STARRATING>
    <USERREVIEW>not good</USERREVIEW>
  </Review>
  <Review reviewID="3">
    <Customer ID="ros_bios">
      <CUSTOMERREF>ros_bios</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>Jubilee kpop</EVENTNAME>
      <EVENTDATE>2024-02-23</EVENTDATE>
    </eventRef>
    <STARRATING>5</STARRATING>
    <USERREVIEW>Really Good</USERREVIEW>
  </Review>
```

```
DOC
<?xml version="1.0" standalone="yes"?>
<ReviewInfo>
  <Review reviewID="4">
    <Customer ID="ros_bios">
      <CUSTOMERREF>ros_bios</CUSTOMERREF>
    </Customer>
    <eventRef>
      <EVENTNAME>American Girl</EVENTNAME>
      <EVENTDATE>2023-02-12</EVENTDATE>
    </eventRef>
    <STARRATING>5</STARRATING>
    <USERREVIEW>Really Good</USERREVIEW>
  </Review>
</ReviewInfo>
```

8

6. Show the information of all tickets sold, including information who bought them(group by event):

```
xmlroot(xmlElement("eventInfo",xmlagg(xmlElement("eventlist",xmlattributes(t.eventRef.eventID as "eventID"),xmlagg(xmlElement("client",xmlattributes(t.orderRef.customerRef.userID as "clientId"),xmlforest(t.orderRef.customerRef.customerName as "Name",t.orderRef.customerRef.phoneNumber as "phoneNumber"))))))),version '1.0',standalone yes) as doc from Ticket t group by t.eventRef.eventID;
```

```
DOC
<?xml version="1.0" standalone="yes"?>
<eventInfo>
  <eventlist eventID="128-J8-240223">
    <client>
      <client clientID="akram_sis">
        <Name>akram sis</Name>
        <phoneNumber>4678824699</phoneNumber>
      </client>
      <client clientID="ahmad_rias">
        <Name>ahmad rias</Name>
        <phoneNumber>4367924622</phoneNumber>
      </client>
      <client clientID="akram_sis">
        <Name>akram sis</Name>
        <phoneNumber>4678824699</phoneNumber>
      </client>
      <client clientID="ros_bios">
        <Name>ros bios</Name>
        <phoneNumber>4647822499</phoneNumber>
      </client>
      <client clientID="akram_sis">
        <Name>akram sis</Name>
        <phoneNumber>4678824699</phoneNumber>
      </client>
      <client clientID="ahmad_rias">
        <Name>ahmad rias</Name>
        <phoneNumber>4367924622</phoneNumber>
      </client>
    </eventlist>
    <eventlist eventID="196-LF-240208">
      <client clientID="ahmad_rias">
        <Name>ahmad rias</Name>
        <phoneNumber>4367924622</phoneNumber>
      </client>
      <client clientID="akram_sis">
        <Name>akram sis</Name>
        <phoneNumber>4678824699</phoneNumber>
      </client>
    </eventlist>
    <eventlist eventID="96-AG-230212">
      <client clientID="ros_bios">
        <Name>ros bios</Name>
        <phoneNumber>4647822499</phoneNumber>
      </client>
      <client clientID="ros_bios">
        <Name>ros bios</Name>
        <phoneNumber>4647822499</phoneNumber>
      </client>
    </eventlist>
  </eventInfo>
```

9

7. Show event name and id for venue id SA

Query7

```
<?xml version="1.0" standalone="yes"?>
<Venue>
  <VenueID>SA</VenueID>
  <VenueName>Scotiabank Arena</VenueName>
  <VenueLocation>40 Bay St., Toronto, ON M5J2X2</VenueLocation>
  <VenueEvents>
    <Event>
      <EventID>128-J8-240223</EventID>
      <EventName>Jubilee kpop</EventName>
    </Event>
    <Event>
      <EventID>196-LF-240208</EventID>
      <EventName>lost frequencies</EventName>
    </Event>
  </VenueEvents>
</Venue>
```

```
SELECT XMLRoot(
  XMLElement("Venue",
    XMLForest(
      v.venueID AS "VenueID",
      v.venueName AS "VenueName",
      v.location AS "VenueLocation",
      (SELECT XMLAgg(
        XMLElement("Event",
          XMLForest(
            e.eventID AS "EventID",
            e.eventName AS "EventName"
          )
        )
      )
    )
  ) AS "VenueEvents"
),
  VERSION '1.0', STANDALONE YES
) AS "Query7"
FROM Venue v
WHERE v.venueID = 'SA';
```

10

8. Find all the tickets, their seats and their venues for all events taking place.

```
select xmlroot(xmlElement("TicketInfo",
xmlagg(xmlElement("Ticket",
xmlattributes(t.ticketID AS "TicketID"),
xmlElement("Seat",
xmlattributes(t.seatRef.seatID AS
"SeatID"))),xmlElement("Venue",
xmlforest(t.seatRef.venueRef.venueID AS
"VenueID", t.seatRef.venueRef.venueName AS
"VenueName")))),version '1.0', standalone
yes) AS Query8 from Ticket t;
```

```
QUERY8
-----
<?xml version="1.0" standalone="yes"?>
<TicketInfo>
  <Ticket TicketID="SAJB-240223-A5">
    <Seat SeatID="SAB127"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-B127">
    <Seat SeatID="SAB127"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-B128">
    <Seat SeatID="SAB128"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-B129">
    <Seat SeatID="SAB129"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="BCAG-230212-D568">
    <Seat SeatID="BCD568"/>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="BCAG-230212-D569">
    <Seat SeatID="BCD569"/>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="BCAG-230212-D570">
    <Seat SeatID="BCD570"/>
    <Venue>
      <VenueID>BC</VenueID>
      <VenueName>BC Place</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-C287">
    <Seat SeatID="SAC287"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-C288">
    <Seat SeatID="SAC288"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SALF-240208-C288">
    <Seat SeatID="SAC288"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SAJB-240223-C289">
    <Seat SeatID="SAC289"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
  <Ticket TicketID="SALF-240208-C289">
    <Seat SeatID="SAC289"/>
    <Venue>
      <VenueID>SA</VenueID>
      <VenueName>Scotiabank Arena</VenueName>
    </Venue>
  </Ticket>
</TicketInfo>
```

11

9. Find all tickets for events organized by busy_buzz.

```
select xmlroot(xmlElement("BusyBuzzEvents",
xmlagg(xmlElement("Event",
xmlattributes(t.eventRef.eventName AS
"EventName"), xmlagg(xmlElement("Ticket",
xmlattributes(t.ticketID AS "TicketID"),
xmlforest(t.ticketPrice as "TicketPrice",
t.ticketStatus as "TicketStatus"))))),
version '1.0', standalone yes) AS Query9 from
Ticket t WHERE
t.eventRef.eventOrganizerRef.orgName = 'Busy
Buzz' group by t.eventRef.eventName;
```

```
QUERY9
-----
<?xml version="1.0" standalone="yes"?>
<BusyBuzzEvents>
  <Event EventName="American Girl">
    <Ticket TicketID="BCAG-230212-D568">
      <TicketPrice>190</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
    <Ticket TicketID="BCAG-230212-D570">
      <TicketPrice>190</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
    <Ticket TicketID="BCAG-230212-D569">
      <TicketPrice>190</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </Event>
  <Event EventName="lost frequencies">
    <Ticket TicketID="SALF-240208-C288">
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
    <Ticket TicketID="SALF-240208-C289">
      <TicketPrice>520</TicketPrice>
      <TicketStatus>1</TicketStatus>
    </Ticket>
  </Event>
</BusyBuzzEvents>
```

12

10. Find all performers, their details and which venues they are performing at.

```
select xmlroot(xmlelement("VenuePerformers",
xmlagg(xmlelement("Venue",
xmlattributes(pd.eventRef.venueRef.venueName
AS "VenueName"),
xmlagg(xmlelement("Performer",
xmlattributes(pd.performerRef.performerID AS
"PerformerID"),
xmlforest(pd.performerRef.performerName AS
"PerformerName", pd.performerDetail AS
"Showtime"))))))), version '1.0', standalone
yes) AS Query10 from PerformerDetail pd group
by pd.eventRef.venueRef.venueName;
```

```
QUERY10
-----
<?xml version="1.0" standalone="yes"?>
<VenuePerformers>
  <Venue VenueName="BC Place">
    <Performer PerformerID="125-AG">
      <PerformerName>Arina Grande</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="103-NM">
      <PerformerName>Nike Minaj</PerformerName>
      <Showtime>Time is 8:00 pm</Showtime>
    </Performer>
  </Venue>
  <Venue VenueName="Scotiabank Arena">
    <Performer PerformerID="98-JK">
      <PerformerName>Jungkook</PerformerName>
      <Showtime>Time is 8:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="130-MC">
      <PerformerName>Matthieu Chedid</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
    <Performer PerformerID="99-TH">
      <PerformerName>Taehyung V</PerformerName>
      <Showtime>Time is 10:00 pm</Showtime>
    </Performer>
  </Venue>
</VenuePerformers>
```

13

11. Retrieve the venue details and seat details

```
SELECT XMLRoot(
  XMLElement("SeatAndVenueDetails",
    XMLForest(
      XMLElement("Seat",
        XMLForest(
          s.seatID AS "SeatID",
          s.seatType AS "SeatType",
          s.seatLocation AS "SeatLocation"
        )
      ) AS "SeatDetails",
      XMLElement("Venue",
        XMLForest(
          v.venueID AS "VenueID",
          v.venueName AS "VenueName",
          v.location AS "VenueLocation"
        )
      ) AS "VenueDetails"
    )
  ),
  VERSION '1.0', STANDALONE YES
) AS "Query11"
FROM Seat s, Venue v
WHERE s.venueRef.venueID = v.venueID;
```

```
Query11
-----
<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAJB-248223-C189</SeatID>
      <SeatType>Kpop</SeatType>
      <SeatLocation>Kpop</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>128-28-248223</VenueID>
      <VenueName>Jubilee kpop</VenueName>
      <VenueLocation>2824-82-23</VenueLocation>
      <VenueDescription>25th anniversary of k-pop in Canada</VenueDescription>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAJB-248223-A5</SeatID>
      <SeatType>Kpop</SeatType>
      <SeatLocation>Kpop</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>128-28-248223</VenueID>
      <VenueName>Jubilee kpop</VenueName>
      <VenueLocation>2824-82-23</VenueLocation>
      <VenueDescription>25th anniversary of k-pop in Canada</VenueDescription>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAJB-248223-C187</SeatID>
      <SeatType>Kpop</SeatType>
      <SeatLocation>Kpop</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>128-28-248223</VenueID>
      <VenueName>Jubilee kpop</VenueName>
      <VenueLocation>2824-82-23</VenueLocation>
      <VenueDescription>25th anniversary of k-pop in Canada</VenueDescription>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>

<?xml version="1.0" standalone="yes"?>
<SeatAndVenueDetails>
  <SeatDetails>
    <Seat>
      <SeatID>SAJB-248223-B128</SeatID>
      <SeatType>Kpop</SeatType>
      <SeatLocation>Kpop</SeatLocation>
    </Seat>
  </SeatDetails>
  <VenueDetails>
    <Venue>
      <VenueID>128-28-248223</VenueID>
      <VenueName>Jubilee kpop</VenueName>
      <VenueLocation>2824-82-23</VenueLocation>
      <VenueDescription>25th anniversary of k-pop in Canada</VenueDescription>
    </Venue>
  </VenueDetails>
</SeatAndVenueDetails>
```

14

12. List all events and corresponding tickets

```
SELECT XMLRoot(
  XMLElement("TicketAndEventDetails",
    XMLForest(
      XMLElement("Ticket",
        XMLForest(
          t.ticketID AS "TicketID",
          t.ticketPrice AS "TicketPrice",
          t.ticketStatus AS "TicketStatus"
        )
      ) AS "TicketDetails",
      XMLElement("Event",
        XMLForest(
          e.eventID AS "EventID",
          e.eventName AS "EventName",
          e.eventDate AS "EventDate",
          e.eventDescription AS
            "EventDescription"
        ) AS "EventDetails"
      )
    ),
    VERSION '1.0', STANDALONE YES
  ) AS "Query12"
FROM Ticket t, Event e
WHERE t.eventRef.eventID = e.eventID;
```

```
Query12
-----
<?xml version="1.0" standalone="yes">
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAA5-240223-C089</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-28-240223</EventID>
      <EventName>Jubilee 4000</EventName>
      <EventDate>2024-02-25</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAA5-240223-A5</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-28-240223</EventID>
      <EventName>Jubilee 4000</EventName>
      <EventDate>2024-02-25</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAA5-240223-C089</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-28-240223</EventID>
      <EventName>Jubilee 4000</EventName>
      <EventDate>2024-02-25</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
<TicketAndEventDetails>
  <TicketDetails>
    <Ticket>
      <TicketID>SAA5-240223-B128</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </Ticket>
  </TicketDetails>
  <EventDetails>
    <Event>
      <EventID>128-28-240223</EventID>
      <EventName>Jubilee 4000</EventName>
      <EventDate>2024-02-25</EventDate>
      <EventDescription>25th anniversary of k-pop in Canada</EventDescription>
    </Event>
  </EventDetails>
</TicketAndEventDetails>
```

15

13. Find the seat details and ticket details for a specific seat id SAA5

```
SELECT XMLRoot(
  XMLElement("SeatAndTicketDetails",
    XMLAgg(
      XMLElement("SeatAndTicket",
        XMLForest(
          s.seatID AS "SeatID",
          s.seatType AS "SeatType",
          s.seatLocation AS "SeatLocation",
          (SELECT XMLForest(
            t.ticketID AS "TicketID",
            t.ticketPrice AS "TicketPrice",
            t.ticketStatus AS "TicketStatus"
          )
            FROM Ticket t
            WHERE t.seatRef.seatID = s.seatID
          ) AS "TicketDetails"
        )
      )
    ),
    VERSION '1.0', STANDALONE YES
  ) AS "Query13"
FROM Seat s
WHERE s.seatID = 'SAA5'
GROUP BY s.seatID, s.seatType, s.seatLocation;
```

Query13

```
<?xml version="1.0" standalone="yes"?>
<SeatAndTicketDetails>
  <SeatAndTicket>
    <SeatID>SAA5</SeatID>
    <SeatType>executive</SeatType>
    <SeatLocation>A15</SeatLocation>
    <TicketDetails>
      <TicketID>SAA5-240223-A5</TicketID>
      <TicketPrice>5000</TicketPrice>
      <TicketStatus>0</TicketStatus>
    </TicketDetails>
  </SeatAndTicket>
</SeatAndTicketDetails>
```

16

14. Find all the unsold tickets with the event name.

```
select
xmlroot(xmlelement("UnsoldTicketList",xmlagg(
xmlelement("UnsoldTicket",xmlattributes(t.ticketID as "ticketID"),
xmlagg(xmlelement("Event",
xmlattributes(t.eventRef.eventID as
"eventID"),
xmlforest(t.eventRef.eventName AS "Event")
))))),VERSION '1.0', STANDALONE YES) as
"UnsoldTicketList" from Ticket t where
t.ticketStatus=0 group by t.ticketID;
```

```
UnsoldTicketList
-----
<?xml version="1.0" standalone="yes"?>
<UnsoldTicketList>
  <UnsoldTicket ticketID="BCAG-230212-D569">
    <Event eventID="96-AG-230212">
      <Event>American
Girl</Event>
    </Event>
  </UnsoldTicket>
  <UnsoldTicket ticketID="SAJB-240223-A5">
    <Event eventID="128-JB-240223">
      <Event>Jubilee
kpop</Event>
    </Event>
  </UnsoldTicket>
</UnsoldTicketList>
```

17

15. List tickets, ticket Price and booking status associated with each customer. (grouped by customer)

```
select xmlroot( xmlelement("CustomerList",
xmlagg(
xmlelement("Customer",xmlattributes(t.orderRef.customerRef.userID as "cID"),
xmlagg(
xmlelement("Event",xmlattributes(t.eventRef.eventID as "eventID"),
xmlforest(t.eventRef.eventName as "eventName",t.ticketID as
"ticketNumber",t.getPrice() as "price",
t.orderRef.bookingStatus as "bookingStatus")))),
VERSION '1.0', STANDALONE YES) as
"CustomerOrderList"
from Ticket t where t.ticketStatus=1 group by
t.orderRef.customerRef.userID;
```

```
CustomerOrderList
-----
<?xml version="1.0" standalone="yes"?>
<CustomerList>
  <Customer cID="Ahmad rias">
    <Event eventID="128-JB-240223">
      <eventName>Jubilee
kpop</eventName>
      <ticketNumber>SAJB-240223-B127</ticketNumber>
      <price>2000</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="196-LF-240208">
      <eventName>Lost
frequency</eventName>
      <ticketNumber>SAJB-240208-C289</ticketNumber>
      <price>520</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="128-JB-240223">
      <eventName>Jubilee
kpop</eventName>
      <ticketNumber>SAJB-240223-C288</ticketNumber>
      <price>520</price>
      <bookingStatus>1</bookingStatus>
    </Event>
  </Customer>
  <Customer cID="Alian aia">
    <Event eventID="128-JB-240223">
      <eventName>Jubilee
kpop</eventName>
      <ticketNumber>SAJB-240223-B128</ticketNumber>
      <price>2000</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="196-LF-240208">
      <eventName>Lost
frequency</eventName>
      <ticketNumber>SAJB-240208-C289</ticketNumber>
      <price>520</price>
      <bookingStatus>1</bookingStatus>
    </Event>
  </Customer>
  <Customer cID="ros bios">
    <Event eventID="128-JB-240223">
      <eventName>Jubilee
kpop</eventName>
      <ticketNumber>SAJB-240223-B129</ticketNumber>
      <price>2000</price>
      <bookingStatus>1</bookingStatus>
    </Event>
    <Event eventID="96-AG-230212">
      <eventName>American
Girl</eventName>
      <ticketNumber>BCAG-230212-D570</ticketNumber>
      <price>190</price>
      <bookingStatus>1</bookingStatus>
    </Event>
  </Customer>
</CustomerList>
```

18

PART THREE:

Create XML Documents using Oracle XSU

19

1. Find all the ticket details and the eventName of all the tickets bought by "akram sis":

```
OracleXML getXML -user "grp2/grp2there"
-conn
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:st
udb10g"
-rowsetTag "UserAkramSis" -rowTag
"TicketDetails" "select t.ticketID,
t.eventRef.eventName,t.ticketPrice from
Ticket t where
t.orderRef.customerRef.customerName='ak
ram sis'"
```

```
<UserAkramSis>
  <TicketDetails num="1">
    <TICKETID>SAJB-240223-B128</TICKETID>
    <EVENTREF.EVENTNAME>Jubilee kpop</EVENTREF.EVENTNAME>
    <TICKETPRICE>2000</TICKETPRICE>
  </TicketDetails>
  <TicketDetails num="2">
    <TICKETID>SAJB-240223-C287</TICKETID>
    <EVENTREF.EVENTNAME>Jubilee kpop</EVENTREF.EVENTNAME>
    <TICKETPRICE>520</TICKETPRICE>
  </TicketDetails>
  <TicketDetails num="3">
    <TICKETID>SAJB-240223-C289</TICKETID>
    <EVENTREF.EVENTNAME>Jubilee kpop</EVENTREF.EVENTNAME>
    <TICKETPRICE>520</TICKETPRICE>
  </TicketDetails>
  <TicketDetails num="4">
    <TICKETID>SALF-240208-C289</TICKETID>
    <EVENTREF.EVENTNAME>lost frequencies</EVENTREF.EVENTNAME>
    <TICKETPRICE>520</TICKETPRICE>
  </TicketDetails>
</UserAkramSis>
```

20

2. Find all reviews written by "ros bios".

```
OracleXML getXML -user "grp2/grp2there"
-conn
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:st
udb10g"
-rowsetTag "UserRosBios" -rowTag
"ReviewRecord" "Select
r.eventRef.eventName as EventName,
r.userReview as Review, r.starRating as
Rating from Review r Where
r.customerRef.customerName = 'ros bios'"
```

```
<?xml version = '1.0'?>
<UserRosBios>
  <ReviewRecord num="1">
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <REVIEW>Really Good</REVIEW>
    <RATING>5</RATING>
  </ReviewRecord>
  <ReviewRecord num="2">
    <EVENTNAME>American Girl</EVENTNAME>
    <REVIEW>Really Good</REVIEW>
    <RATING>5</RATING>
  </ReviewRecord>
</UserRosBios>
```

21

3. Find the event names and the performers that will be at Scotiabank Arena.

```
OracleXML getXML -user "grp2/grp2there"
-conn \
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:st
udb10g" \
-rowsetTag "ScotiabankArena" -rowTag
"EventDetails" "Select
pd.eventRef.eventName as EventName,
pd.performerRef.performerName as
PerformerName from PerformerDetail pd
Where pd.eventRef.venueRef.venueName
= 'Scotiabank Arena'"
```

```
<?xml version = '1.0'?>
<ScotiabankArena>
  <EventDetails num="1">
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <PERFORMERNAME>Jungkook</PERFORMERNAME>
  </EventDetails>
  <EventDetails num="2">
    <EVENTNAME>Jubilee kpop</EVENTNAME>
    <PERFORMERNAME>Taehyung V</PERFORMERNAME>
  </EventDetails>
  <EventDetails num="3">
    <EVENTNAME>lost frequencies</EVENTNAME>
    <PERFORMERNAME>Matthieu Chedid</PERFORMERNAME>
  </EventDetails>
</ScotiabankArena>
```

22

4. Find all the names and reviews for the event with eventID = '196-LF-240208'.

```
OracleXML getXML -user "grp2/grp2there"
-conn \
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:st
udb10g" \
-rowsetTag "LostFrequenciesEvent" -
rowTag "CustomerReview" "Select
r.customerRef.customerName as
CustomerName, r.userReview as Review
from Review r Where r.eventRef.eventID =
'196-LF-240208'"
```

```
<?xml version = '1.0'?>
<LostFrequenciesEvent>
  <CustomerReview num="1">
    <CUSTOMERNAME>ahmad rias</CUSTOMERNAME>
    <REVIEW>very bad experience</REVIEW>
  </CustomerReview>
  <CustomerReview num="2">
    <CUSTOMERNAME>akram sis</CUSTOMERNAME>
    <REVIEW>horrible</REVIEW>
  </CustomerReview>
</LostFrequenciesEvent>
```

23

5. Find the orgName and the phone number of the event organizers of the event with eventName = 'Jubilee kpop'.

```
OracleXML getXML -user "grp2/grp2there"
-conn \
"jdbc:oracle:thin:@sit.itec.yorku.ca:1521:st
udb10g" \
-rowsetTag "JubileeKpop" -rowTag
"OrgDetails" "Select
e.eventOrganizerRef.orgName as
OrganizerName,
e.eventOrganizerRef.phoneNumber as
OrganizerPhoneNo from Event e Where
e.eventName = 'Jubilee kpop'"
```

```
<?xml version = '1.0'?>
<JubileeKpop>
  <OrgDetails num="1">
    <ORGANIZERNAME>Hungry wines</ORGANIZERNAME>
    <ORGANIZERPHONENO>4367362422</ORGANIZERPHONENO>
  </OrgDetails>
</JubileeKpop>
```

24

PART FOUR:

Uploaded XML Documents For Part FIVE

25

```
1 Declare
2   ret boolean;
3   begin
4     ret:=
5       dbms_xdb.createresource('/public/grp20242/customer.xml',
6 '<CustomerInfo>
7 <Customer ID="ahmad_rias">
8   <CUSTOMERNAME>ahmad rias</CUSTOMERNAME>
9   <PHONENUMBER>4367924622</PHONENUMBER>
10 </Customer>
11 <Customer ID="akram_sis">
12   <CUSTOMERNAME>akram sis</CUSTOMERNAME>
13   <PHONENUMBER>4678824699</PHONENUMBER>
14 </Customer>
15 <Customer ID="ros_bios">
16   <CUSTOMERNAME>ros bios</CUSTOMERNAME>
17   <PHONENUMBER>4647822499</PHONENUMBER>
18 </Customer>
19 </CustomerInfo>');
20 commit;
21 end;
22 /
```

26

```

1 Declare
2   ret boolean;
3   begin
4     ret:=
5     dbms_xdb.createresource('/public/grp20242/EventInfoD.xml',
6     '<EventInfo>
7       <Event>
8         <EVENTNAME>American Girl</EVENTNAME>
9         <Performer>
10          <PERFORMERID>125-AG</PERFORMERID>
11          <PERFORMERNAME>Arina Grande</PERFORMERNAME>
12        </Performer>
13        <Performer>
14          <PERFORMERID>103-NM</PERFORMERID>
15          <PERFORMERNAME>Nike Minaj</PERFORMERNAME>
16        </Performer>
17      </Event>
18      <Event>
19        <EVENTNAME>Jubilee kpop</EVENTNAME>
20        <Performer>
21          <PERFORMERID>98-JK</PERFORMERID>
22          <PERFORMERNAME>Jungkook</PERFORMERNAME>
23        </Performer>
24        <Performer>
25          <PERFORMERID>99-TH</PERFORMERID>
26          <PERFORMERNAME>Taehyung V</PERFORMERNAME>
27        </Performer>
28      </Event>
29      <Event>
30        <EVENTNAME>Lost frequencies</EVENTNAME>
31        <Performer>
32          <PERFORMERID>130-MC</PERFORMERID>
33          <PERFORMERNAME>Matthieu Chedid</PERFORMERNAME>
34        </Performer>
35      </Event>
36    </EventInfo>');
37  commit;
38 end;
39 /

```

```

1 Declare
2   ret boolean;
3   begin
4     ret:=
5     dbms_xdb.createresource('/public/grp20242/VenuePerformers
6     '<VenuePerformers>
7       <Venue VenueName="BC Place">
8         <Performer PerformerID="125-AG">
9           <PerformerName>Arina Grande</PerformerName>
10          <Showtime>Time is 10:00 pm</Showtime>
11        </Performer>
12        <Performer PerformerID="103-NM">
13          <PerformerName>Nike Minaj</PerformerName>
14          <Showtime>Time is 8:00 pm</Showtime>
15        </Performer>
16      </Venue>
17      <Venue VenueName="Scotiabank Arena">
18        <Performer PerformerID="98-JK">
19          <PerformerName>Jungkook</PerformerName>
20          <Showtime>Time is 8:00 pm</Showtime>
21        </Performer>
22        <Performer PerformerID="130-MC">
23          <PerformerName>Matthieu Chedid</PerformerName>
24          <Showtime>Time is 10:00 pm</Showtime>
25        </Performer>
26        <Performer PerformerID="99-TH">
27          <PerformerName>Taehyung V</PerformerName>
28          <Showtime>Time is 10:00 pm</Showtime>
29        </Performer>
30      </Venue>
31    </VenuePerformers>');
32  commit;
33 end;
34 /
35 /

```

27

```

1 Declare
2   ret boolean;
3   begin
4     ret:=
5     dbms_xdb.createresource('/public/grp20242/reviewInfo.xml',
6     '<Review reviewID="1">
7       <Customer ID="ahmad_riass">
8         <CUSTOMERREF>ahmad_riass</CUSTOMERREF>
9       </Customer>
10      <eventRef>
11        <EVENTNAME>Jubilee kpop</EVENTNAME>
12        <EVENTDATE>2024-02-23</EVENTDATE>
13      </eventRef>
14      <STARRATING>3</STARRATING>
15      <USERREVIEW>good..pretty much satisfied</USERREVIEW>
16    </Review>
17    <Review reviewID="5">
18      <Customer ID="ahmad_riass">
19        <CUSTOMERREF>ahmad_riass</CUSTOMERREF>
20      </Customer>
21      <eventRef>
22        <EVENTNAME>lost frequencies</EVENTNAME>
23        <EVENTDATE>2024-02-08</EVENTDATE>
24      </eventRef>
25      <STARRATING>0</STARRATING>
26      <USERREVIEW>very bad experience</USERREVIEW>
27    </Review>
28    <Review reviewID="6">
29      <Customer ID="akram_sis">
30        <CUSTOMERREF>akram_sis</CUSTOMERREF>
31      </Customer>
32      <eventRef>
33        <EVENTNAME>lost frequencies</EVENTNAME>
34        <EVENTDATE>2024-02-08</EVENTDATE>
35      </eventRef>
36      <STARRATING>0</STARRATING>
37      <USERREVIEW>horrible</USERREVIEW>
38    </Review>
39    <Review reviewID="2">
40      <Customer ID="akram_sis">
41        <CUSTOMERREF>akram_sis</CUSTOMERREF>
42      </Customer>
43      <eventRef>
44        <EVENTNAME>Jubilee kpop</EVENTNAME>
45        <EVENTDATE>2024-02-23</EVENTDATE>
46

```

```

46      <EVENTDATE>2024-02-23</EVENTDATE>
47    </eventRef>
48    <STARRATING>1</STARRATING>
49    <USERREVIEW>not good</USERREVIEW>
50  </Review>
51  <Review reviewID="3">
52    <Customer ID="ros_bios">
53      <CUSTOMERREF>ros_bios</CUSTOMERREF>
54    </Customer>
55    <eventRef>
56      <EVENTNAME>Jubilee kpop</EVENTNAME>
57      <EVENTDATE>2024-02-23</EVENTDATE>
58    </eventRef>
59    <STARRATING>5</STARRATING>
60    <USERREVIEW>Really Good</USERREVIEW>
61  </Review>
62  <Review reviewID="4">
63    <Customer ID="ros_bios">
64      <CUSTOMERREF>ros_bios</CUSTOMERREF>
65    </Customer>
66    <eventRef>
67      <EVENTNAME>American Girl</EVENTNAME>
68      <EVENTDATE>2023-02-12</EVENTDATE>
69    </eventRef>
70    <STARRATING>5</STARRATING>
71    <USERREVIEW>Really Good</USERREVIEW>
72  </Review>
73 </ReviewInfo>');
74 commit;
75 end;
76 /
77 /

```

28

PART FIVE:

XQuery Language Queries

29

1. Find the order that takes place on Oct, 02, 2026:

```
xquery
let $c :=
doc('/public/grp20242/orderInfo.xml')
for $m in $c/OrderInfo/Order
where $m/TO_DATE = '2026-10-02'
return $m/OrderType/text()
/
```

Result Sequence

Online
In-store

2. Find the event, which took place "23-Feb-2024"

```
xquery
let $e :=
doc('/public/grp20242/eventInfo.xml')
for $d in $e/Events/Event
where $d/DATE = '2024-02-23'
return $d/EVENTNAME/text()
/
```

Result Sequence

Event 1

30

3. Find all reviews for "lost frequencies"

```
xquery
let $reviews :=
doc('/public/grp20242/reviewInfo.xml')
for $review in $reviews/ReviewInfo/Review
where $review/eventRef/PERFORMERNAME = 'Lost
Frequencies'
return $review
/
```

```
Result Sequence
-----
<review>
  <reviewID>1</reviewID>
  <eventRef>
    <EVENTNAME>Event 1</EVENTNAME>
    <PERFORMERNAME>Lost Frequencies</PERFORMERNAME>
  </eventRef>
  <STARRATING>4</STARRATING>
  <userReview>Great performance</userReview>
</review>

<review>
  <reviewID>2</reviewID>
  <eventRef>
    <EVENTNAME>Event 2</EVENTNAME>
    <PERFORMERNAME>Lost Frequencies</PERFORMERNAME>
  </eventRef>
  <STARRATING>5</STARRATING>
  <userReview>Amazing show</userReview>
</review>

<review>
  <reviewID>3</reviewID>
  <eventRef>
    <EVENTNAME>Event 3</EVENTNAME>
    <PERFORMERNAME>Lost Frequencies</PERFORMERNAME>
  </eventRef>
  <STARRATING>3</STARRATING>
  <userReview>Decent performance.</userReview>
</review>
```

4. Find the event, which has a star rating lower than 3:

```
xquery
let $c:=doc('/public/grp20242/reviewInfo.xml')
for $m in $c/ReviewInfo/Review
where $m/STARRATING < 3
return $m/eventRef/EVENTNAME/text()
/
```

Result Sequence

```
lost frequencies
lost frequencies
Jubilee kpop
```

31

5. Find all reviews from customer id 'akram_sis'.

xquery

```
let $c:=doc('/public/grp20242/reviewInfo.xml')
for $m in $c/ReviewInfo/Review
where $m/Customer/@ID = 'akram_sis'
return <review
ID="{ $m/@reviewID }"><eventName>{ $m/eventRef/EVENTN
AME/text() }</eventName><starRating>{ $m/STARRATING/
text() }</starRating></review>
/
```

Result Sequence

```
<review ID="6"><eventName>lost frequencies</eventName><starRating>0</starRating>
</review>

<review ID="2"><eventName>Jubilee kpop</eventName><starRating>1</starRating></re
view>
```

6. Find the customer's phone number, who writes a review for the event 'American Girl'.

```
xquery
let $c:=doc('/public/grp20242/reviewInfo.xml')
for $m in $c/ReviewInfo/Review[eventRef/EVENTNAME =
'American Girl']
let $s :=doc('/public/grp20242/customer.xml')
for $d in $s/CustomerInfo/Customer
where $d/@ID = $m/Customer/@ID
return $d/PHONENUMBER/text()
/
```

Result Sequence

```
4647822499
```

32

7. Find the performers which have a showtime of 8:00 pm.

```
xquery
let
  $v:=doc("/public/grp20242/VenuePerformers.xml"
)
for $p in $v/VenuePerformers/Venue/Performer
where $p/Showtime = 'Time is 8:00 pm'
return $p/PerformerName/text()
/
```

Result Sequence

```
-----
Nike Minaj
Jungkook
```

8. Find the performer's name with PerformerID = '98-JK'.

```
xquery
let
  $v:=doc("/public/grp20242/VenuePerformers.xml"
)
for $p in $v/VenuePerformers/Venue/Performer
where $p/@PerformerID = '98-JK'
return $p/PerformerName/text()
/
```

Result Sequence

```
-----
Jungkook
```

33

9. Find the event names of events with a showtime of 8:00 pm.

```
xquery
let $v:=doc("/public/grp20242/VenuePerformers.xml")
for $performeratt in
  $v/VenuePerformers/Venue/Performer[Showtime = 'Time is 8:00
pm']
let $e:=doc("/public/grp20242/EventInfo0.xml")
let $performerele := $performeratt/@PerformerID
for $event in $e/EventInfo/Event
where $event/Performer/PERFORMERID = $performerele
return $event/EVENTNAME/text()
/
```

Result Sequence

```
-----
American Girl
Jubilee kpop
```

10. Find events with performer ID 125-AG

```
xquery
let $v := doc("/public/grp20242/VenuePerformers.xml")
let $performeratt :=
  $v/VenuePerformers/Venue/Performer[@PerformerID = '125-AG']
let $e := doc("/public/grp20242/EventInfo0.xml")
let $performerele := $performeratt/@PerformerID
for $event in $e/EventInfo/Event
where $event/Performer/PERFORMERID = $performerele
return $event/EVENTNAME/text()
```

Result Sequence

```
-----
American Girl
```

34

11. Find the performer(s) that perform at American Girl

```
xquery
let $eventName := 'American Girl'
let $e := doc("/public/grp20242/EventInfo0.xml")
for $event in $e//Event[EVENTNAME = $eventName]
where $event/Performer/PERFORMERNAME
return $event/Performer/PERFORMERNAME/text()
```

Result Sequence

```
-----
Arina Grande
Nike Minaj
```

12. Return customer name that belongs to phone number 4367924622

```
xquery
let $v := doc("/public/grp20242/customer.xml")
for $c in $v/CustomerInfo/Customer
where $c/PHONENUMBER = '4367924622'
return ($c/CUSTOMERNAME/text())
```

Result Sequence

```
-----
ahmad rias
```

35

13. Find performer that is performing at venue Scotiabank Arena

```
xquery
let $venueName := 'Scotiabank Arena'
let $c :=
doc('/public/grp20242/VenuePerformers.xml')
for $venue in $c//Venue
where $venue@VenueName = $venueName
return $venue/Performer/PerformerName/text()
```

Result Sequence

```
-----
Jungkook
Matthieu Chedid
Taehyung V
```

14. Count the number of events that take place at Scotiabank arena

```
xquery
let $venueName := 'Scotiabank Arena'
let $venue := doc('/public/grp20242/VenuePerformers.xml')//Venue[@VenueName = $venueName]
let $total := sum(
  for $performer in $venue/Performer
  let $performerName := $performer/PerformerName/text()
  let $events := doc('/public/grp20242/EventInfo0.xml')//Event
  where $events/Performer/PERFORMERNAME = $performerName
  return count($events)
)
return $total
```

Result Sequence

```
-----
9
```

36

15. For star ratings that are less than 3, find the customer's phone number.

```
xquery
let $r:=doc("/public/grp20242/reviewInfo.xml")
for $sr in $r/ReviewInfo/Review[STARRATING < 3]
let $c:=doc("/public/grp20242/customer.xml")
for $a in $c/CustomerInfo/Customer
where $a/@ID = $sr/Customer/@ID
return $a/PHONENUMBER/text()
/
```

Result Sequence

```
-----
4367924622
4678824699
4678824699
```

37

Thank You

For Listening!

38