Report

Team Members:
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Contribution: We worked on the whole project together.

Tools used:
1)SqlServerManagementStudio

Languages used:
1)Transact-SQL

Instructions for running:
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1)Run the SQL Script 'EmployeeXML' in SQLServer. This will generate the XML output of Employee document.
2)Run the SQL Script 'ProjectXML' in SQLServer. This will generate the XML output of Project document.

pseudocode:

1)Uses the database created in Project2.
2)Joins the tables to get the required columns and loads it into a temporary table.
3)Convert the relational data from the above table into XML format using the inbuilt functionality in SQLServer i.e, 'FOR XML AUTO'
4)Export the XML output into a text file
5)Converted the text file to Standard XML files i.e, 'Projects.xml' and 'Employees.xml' using online formatter. Please find them in the current folder

Screenshot of query execution in sql server which converts relational data to xml format,

```
EmployeeXML.sql -...L205KIN\gsai5 (58))    X    SQLQuery17.sql - (l...L205KIN\gsai5 (59))*        DepartmentJson.sql - not connected
16    Declare @xmldata xml
17
18  set @xmldata = (
19        select Lname,Fname,Dname,
20            (
21                select Pname,Pnumber,Hours
22                from #temp Project
23                where Project.Lname = Employee.Lname and Project.Fname = Employee.Fname
24                for xml auto,type,elements,ROOT('Projects')
25            )
26        from #temp Employee
27        group by Lname,Fname,Dname
28        for xml auto,elements,ROOT('Employees')
29    )
30
31    select @xmldata as xml_format
```

100 %

Results Messages

xml_format
1	<Employees><Employee><Lname>Bacher</Lname><Fname>Red</Fname><Dname>Sales</Dname><Projects><Project><Pname>Operatin...


```
ProjectXML.sql - (l...-L205KIN\gsai5 (58))    X    SQLQuery17.sql - (l...L205KIN\gsai5 (59))*        D
16    Declare @xmldata xml
17
18  set @xmldata = (
19        select Pname,Pnumber,Dname,
20            (
21                select Lname,Fname,Hours
22                from #temp Employee
23                where Project.Pnumber = Employee.Pnumber
24                for xml auto,type,elements,ROOT('Employees')
25            )
26        from #temp Project
27        group by Pname,Pnumber,Dname
28        for xml auto,elements,ROOT('Projects')
29    )
30
31    select @xmldata as xml_format
```

100 %

Results Messages

xml_format
1	<Projects><Project><Pname>Advertizing</Pname><Pnumber>70</Pnumber><Dname>HR</Dname><...