MarkLogic Email Assignment

*<?xml version="1.0" encoding="UTF-8"?>*

*<emails>*

*<email>*

*<to>Vishal</to>*

*<from>Sonu</from>*

*<heading>Hello</heading>*

*<body>Hello brother, how are you!</body>*

*</email>*

*<email>*

*<to>Peter</to>*

*<from>Jack</from>*

*<heading>Birth day wish</heading>*

*<body>Happy birth day Tom!</body>*

*</email>*

*<email>*

*<to>James</to>*

*<from>Jacalin</from>*

*<heading>Morning walk</heading>*

*<body>Please start morning walk to stay fit!</body>*

*</email>*

*<email>*

*<to>Kartik</to>*

*<from>Kumar</from>*

*<heading>Health Tips</heading>*

*<body>Smoking is injurious to health!</body>*

*</email>*

*<email>*

*<to> Sonu</to>*

*<from>Vishal</from>*

*<heading>Hello</heading>*

*<body>Hello brother I’m Good, how are you?</body>*

*</email>*

*<email>*

*<to>James</to>*

*<from> Sonu </from>*

*<heading>Birth day wish</heading>*

*<body>Happy birth day James!</body>*

*</email>*

*</emails>*

1. Create Document with URI “/emails” and insert the above document.
2. For Each Email in Doc “/emails” create two Documents one for one for user who sent the email and one for who received the email. Add to email with URI {/Outbox/from/ heading }, to the collections “email” and “outbox” and add from email with URI{/Inbox/to/ heading}, to the collection’s “inbox” and “email”.
3. for each User retrieve the sent email and received email in below format

*<result>*

*<user>*

*<username> James</username>*

*<emails>*

*<inbox>*

*<email>*

*</email*

*</inbox>*

*<outbox>*

*</outbox>*

*</emails>*

*</user>*

*<user>*

*.*

*</user>*

*</result>*

1. retrieve all the emails and group by from user
2. retrieve all the emails and group by heading.
3. Retrieve all the emails related to James and sonu.
4. Return the username who received two or lesser than two emails.
5. Retrieve all birthday wish Emails.
6. Write a Function which return Interval For given input start datetime, end datetime and interval duration(Day, Hours).

*<IntervalDetails>*

*<interval attr=”1”>*

*<startdatetime> start-time </startdatetime>*

*<enddatetime> end-time </enddatetime>*

*</interval>*

*.*

*.*

*.*

*</IntervalDetails>*