**Equipment Management**

Equipments

Company

BusinessUnit

EquipmentDetail

EquipmentType

Status

Quantity

Duration

AllocatedQuantity

EquipmentStartDateTime

EquipmentEndDateTime

**Equipment Type:** Rollers, Scrappers, Excavators

**Company:** WNDSR, QCOMP, TCOMP, NORDM

**Status:** New, Allocated, Available

**Note:** Create multiple Equipments Documents, each with a different dataset and multiple EquipmentDetails.

**For above Equipment Details:**

* Create Equipments XML file.
* Insert Document into the MarkLogic.
* Insert Document into “Equipments” Collection.
* Write FLWOR query to get all Equipment Details from Equipment collection.
* Write FLWOR query to get all Equipment Details from Equipments where Equipment Type is “Rollers”.
* Write FLWOR query to get all Equipment Type and Allocated Quantity where Company is “WNDSR”.
* Write FLWOR query to get all the Equipments Details where status is “Allocated”.
* Write FLWOR query to get all Equipment Type and count.
* Write FLWOR query to get all Equipment Details grouped by “Equipment Type”.
* Write FLWOR query to update status to “Available” where EquipmentEndDateTime is less than the current date time.
* Write a Function which return Interval For given input start datetime, end datetime and interval duration.

*<IntervalDetails>*

*<interval attr=”1”>*

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

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

*</interval>*

*.*

*.*

*.*

*</IntervalDetails>*

* Write a Function to convert input datetime into UTC datetime.