Converting ER Diagram into Relational Tables

Mapping Employee entity

Employee

empID	firstName	middleName	lastName	Sex

Age	Email	Role	username	Password

Mapping Tourist entity

Tourist

passportNO	firstName	middleName	lastName	Sex	age

Country	Email	dateOfentry	dateOfReturn	userName	Password

Mapping Heritage entity

Heritage

heritageID	nationalRID	localName	Name	catalogNO	Country	Region

Zone	Woreda	Kebele	Aboundance	dateOfAquistion	Ownership
photoName	photoID	photoPath	centuryOfConstitue	yearOFConstitue	

currentState	Thoroughness	siteName	siteCode

Mapping Tour Guide Entity

Tour_Guide

tourGuideID	Name	Email	userName	Password

Mapping multi value Address

Address

tourGuideID	Address

Mapping relationship employee register tourist

Emp_Register_Tourist

passportNO	firstName	middleName	lastName	Sex	Age

Country	Email	dateOfEntry	dateOfReturn	userName	Password	empID

Mapping Employee promote heritage relationship

Emp_Promote_Heritage

heritageID	heritageName	photoPath	description	publishedDate	empID

Mapping Employee Approve heritage relationship

Emp_Approve_Heritage

empID	heritageID

Mapping Employee register heritage relationship

Emp_Register_Heritage

heritageID	nationalRID	localName	Name	catalogNO	Country	Region

Zone	Woreda	Kebele	Aboundance	dateOfAquistion	Ownership
photoName	photoID	photoPath	centuryOfConstitue	yearOFConstitue	

currentState	Thoroughness	siteName	siteCode	empID

Mapping Employee maintain heritage relationship

Emp_Maintain_Heritage

empID	heritageID

Mapping relationship employee request maintenance

empID	dateOfRequest	estimatedCostOfMaintenance	severityLevel	Description

Mapping Employee register tour guide relationship

Emp_Register_tGuide

tourGuideID	firstName	lastName	Email	userName	Password	empID

Mapping tourist recommend heritage relationship

Tourist_Recomm_Heritage

passportNO	heritageID	dateOfRecomendation	photo	Description

Mapping Tour_Guide guide tourist relationship

TGuide_Guide_Tourist

tourGuideID	passportNO

Mapping tourist visit heritage relationship

Tourist_Visit_Heritage

passportNO	heritageID

The Final Table is

Employee table

Address table

Tourist_Recomm_Heritage

Emp_Register_tGuide

Emp_Register_Heritage

 Emp_Register_Tourist

Emp_Request_maintenance

Emp_Promote_Heritage

Emp_Approve_Heritage

TGuide_Guide_Tourist

Tourist_Visit_Heritage

Data structure

Table **Error! No text of specified style in document.**.1: Employee Table

Attribute	Data Type	Length	Constraint
empID	Varchar	20	Primary key
firstName	Varchar	50	--
middleName	Varchar	50	--
lastName	Varchar	50	--
Sex	Varchar	10	--
Role	Varchar	10	--
Email	Varchar	20	--
Age	Integer	--	--
Username	Varchar	20	--
Password	Varchar	20	--

Table **Error! No text of specified style in document.**.2: Address Table

Attribute	Data Type	Length	Constraint
tourGuideID	Varchar	20	Foreign key
Address	Varchar	20	Primary key

Table **Error! No text of specified style in document.**.3: Tourist Recommendation Table

Attribute	Data Type	Length	Constraint
passportNO	Varchar	20	Foreign key
heritageID	Varchar	20	Foreign key
dateOfRecommendation	Date	---	--
photoPath	Varchar	100	--
Description	Varchar	1000	--

Table **Error! No text of specified style in document.**.4: Tourist Table

Attribute	Data Type	Length	Constraint
passPortNO	Varchar	20	Primary key
firstName	Varchar	50	--
middleName	Varchar	50	--
lastName	Varchar	50	--
Sex	Varchar	10	--
Age	Integer	--	--
Country	Varchar	50	--
Email	Varchar	20	--
dataOfEntry	Date	--	--
dateOfReturn	Date	--	--
Username	Varchar	20	--
Password	Password	20	--
empID	Varchar	20	Foreign key

Table **Error! No text of specified style in document.**.5: Tour Guide Table

Attribute	Data Type	Length	Constraint
tourGuideID	Varchar	20	
firstName	Varchar	50	
lastName	Varchar	50	
Email	Varchar	20	
Username	Varchar	20	
Password	Password	20	
empID	Varchar	20	

Table **Error! No text of specified style in document.**.6: Heritage Table

Attribute	Data Type	Length	Constraint
heritageID	Varchar	20	Primary key

nationalRNO	Varchar	20	--
Name	Varchar	50	--
LocalName	Varchar	50	--
catalogNO	Varchar	50	--
Country	Varchar	50	--
Region	Varchar	50	--
Zone	Varchar	50	--
Woreda	Varchar	50	--
Kebele	Varchar	50	--
Aboundance	Integer	--	--
dateOfAquistion	Date	--	--
ownership	Varchar	30	--
photoName	Varchar	50	--
photoID	Varchar	50	--
photoPath	Varchar	100	--
centuryOfConsiste	Varchar	50	--
yearOfConsiste	Integer	--	--
Thoroughness	Varchar	50	--
currentState	Varchar	50	--
siteName	Varchar	50	--
siteCode	Varchar	50	--
empID	Varchar	20	Foreign key

Table **Error! No text of specified style in document.**.7: Maintenance Request Table

Attribute	Data Type	Length	Constraint
dateOfRequest	Date	--	--
estimatedCostOfMaintenance	Double	--	--
severityLevel	Varchar	10	--
Description	Varchar	1000	--
empID	Varchar	20	Foreign key

Table **Error! No text of specified style in document.**.8: Heritage Approval Table

Attribute	Data Type	Length	Constraint
empID	Varchar	20	Foreign key
heritageID	Varchar	20	Foreign key

Table **Error! No text of specified style in document.**.9: Heritage Promotion Table

Attribute	Data Type	Length	Constraint
heritageID	Varchar	20	Primary key
heritageName	Varchar	50	--
photoPath	Varchar	100	--
Description	Varchar	1000	--
publishedDate	Date	--	--
empID	Varchar	20	Foreign key

Table **Error! No text of specified style in document.**.10: Tourist with Guider Table

Attribute	Data Type	Length	Constraint
tourGuideID	Varchar	20	Foreign key
passportNO	Varchar	20	Foreign key

Table **Error! No text of specified style in document.**.11: Tourist Visit Heritage Table

Attribute	Data Type	Length	Constraint
passportNO	Varchar	20	Foreign key
heritageID	Varchar	20	Foreign key