بسمه تعالی

پروژه طراحی پایگاه داده‌ها

دامنه‌های صفات

استاد
دکتر امینی

پارسا محمدیان ۹۸۱۰۲۲۸۴
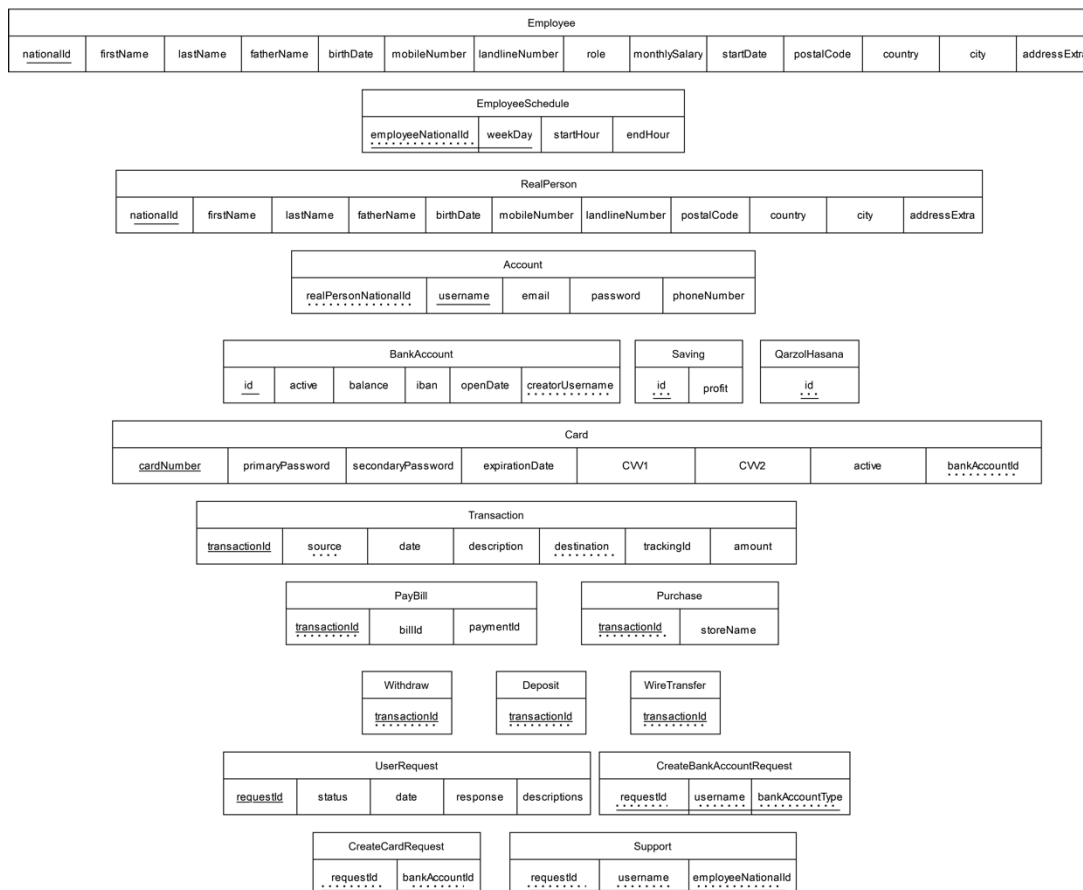
سارا آذرنوش ۹۸۱۷۰۶۶۸

ارشان دلیلی ۹۸۱۰۵۷۵۱

در زیر جدول‌های پایگاه داده را مشاهده می‌کنید.

Phase 2

Employee													
nationalId	firstName	lastName	fatherName	birthDate	mobileNumber	landlineNumber	role	monthlySalary	startDate	postalCode	country	city	addressExtra

EmployeeSchedule			
employeeNationalId	weekDay	startHour	endHour

RealPerson										
nationalId	firstName	lastName	fatherName	birthDate	mobileNumber	landlineNumber	postalCode	country	city	addressExtra

Account				
realPersonNationalId	username	email	password	phoneNumber

BankAccount							Saving		QarzolHasana
id	active	balance	iban	openDate	creatorUsername		id	profit	id

Card							
cardNumber	primaryPassword	secondaryPassword	expirationDate	CW1	CW2	active	bankAccountId

Transaction						
transactionId	source	date	description	destination	trackingId	amount

PayBill			Purchase	
transactionId	billId	paymentId	transactionId	storeName

Withdraw	Deposit	WireTransfer
transactionId	transactionId	transactionId

UserRequest					CreateBankAccountRequest		
requestId	status	date	response	descriptions	requestId	username	bankAccountType

CreateCardRequest		Support		
requestId	bankAccountId	requestId	username	employeeNationalId

حال دامنه صفات هر یک از جدول‌ها را به دست می‌آوریم. داریم:

- Employee
  - nationalId: 10-digit number can start with 0 (string fix length: 10)
  - firstName: string (maximum length: 30)
  - lastName: string (maximum length: 30)
  - fatherName: string (maximum length: 30)
  - birthDate: date object (more than 18 years)
  - mobileNumber: 10-digit number can start with 0 (string fix length: 10)
  - landlineNumber: 10-digit number can start with 0 (string max length: 10)
  - role: text

- o monthlySalary: money object
- o startDate: date object
- o postalCode: 10-digit number can start with 0 (string fix length: 10)
- o country: string (maximum length: 50)
- o city: string (maximum length: 50)
- o addressExtra: text
- **EmployeeSchedule:**
  - o employeeNationalId: 10-digit number can start with 0 (string fix length: 10)
  - o weekDay: custom weekday enum type (defined in the database)
  - o startHour: time data type
  - o endHour: time data type
- **RealPerson:**
  - o nationalId: 10-digit number can start with 0 (string fix length: 10)
  - o firstName: string (maximum length: 30)
  - o lastName: string (maximum length: 30)
  - o fatherName: string (maximum length: 30)
  - o birthDate: date object (more than 18 years)
  - o mobileNumber: 10-digit number can start with 0 (string fix length: 10)
  - o landlineNumber: 10-digit number can start with 0 (string max length: 10)
  - o postalCode: 10-digit number can start with 0 (string fix length: 10)
  - o country: string (maximum length: 50)
  - o city: string (maximum length: 50)
  - o addressExtra: text
- **BankAccount:**
  - o id: serial
  - o active: boolean
  - o balance: money
  - o iban: 24-digit number (string fix length: 24)
  - o openDate: date data type
  - o creatorUsername: string (maximum length: 30)

- Saving:
    - id: integer
    - profit: real (between 0 and 1)
- QarzolHasana:
    - id: integer
- PayBill:
    - transactionId: bigint
    - billId: string (maximum length: 13)
    - paymentId: string (maximum length: 13)
- Purchase:
    - transactionId: bigint
    - storeName: string (maximum length: 100)
- Withdraw:
    - transactionId: bigint
- Deposit:
    - transactionId: bigint
- WireTransfer:
    - transactionId: bigint
- Account:
    - realPersonNationId: 10-digit number can start with 0 (string fix length: 10)
    - username: string (maximum length: 30)
    - email: string (maximum length: 50)
    - password: SHA-256 hash (string fix length: 32)
    - phoneNumber: 10-digit number can start with 0 (string fix length: 10)

- Card:
    - cardNumber: string (maximum length: 19)
    - primaryPassword: SHA-256 hash (string fix length: 32)
    - secondaryPassword: SHA-256 hash (string fix length: 32)

- o expirationDate: date

- o CVV1: string (maximum length: 4)

- o CVV2: string (maximum length: 4)

- o active: boolean

- o bankAccount: integer

- Transaction:

  - o transactionId: bigserial

  - o source: integer

  - o destination: integer

  - o date: date

  - o description: text

  - o trackingId: bigserial

  - o amount: money

- CreateCardRequest:

  - o requestId: bigint

  - o bankAccountId: integer

- Support:

  - o requestId: bigint

  - o username: string (maximum length 30)

  - o employeeNationalId: 10-digit number can start with 0 (string fix length: 10)

- UserRequest:

  - o requestId: bigserial

  - o status: custom status enum type (defined in the database)

  - o date: date

  - o response: text

  - o description: text

- CreateBankAccountRequest:

  - o requestId: bigint

  - o username: string (maximum length 30)

  - o bankAccountType: custom bank account type enum (defined in the database)