

ADBS project 5.

Using Amps server.

1. [50] **Basic functionality:** your application must support basic database operations such as looking-up, inserting, deleting, and updating. All these must be implemented in your application program and interact with the database through ODBC or JDBC.

Looking up:

Employee Table Browser


[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha		chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgyt	1	Edit Delete

Inserting:

Create Employee Record

SSN:

DOB: 

Name:

First Name:

Middle Initial:

Last Name:

Address:

Employee Type: ▼

Employee Table Browser

[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha		chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

Updating:

Employee Table Browser

[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha		chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

Edit Employee Record

SSN:

123456785

Middle Initial:

x

DOB:

11/13/2023

Name:

Ankitha Chavan

First Name:

Ankitha

Last Name:

chavan

Address:

cftyu

Employee Type:

1

Update Record

Employee Table Browser

[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha	x	chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

Deleting:

Employee Table Browser

[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha	x	chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

Employee Table Browser

[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

2. [20] **Web based:** users can access your database on line from a web browser. You can implement it using PHP/WAMP/MAMP/LAMP (or Java servlets, MS SQL server, etc.).



ADBS Project

Click below to proceed:

[Click here](#)



Choose an action:

[Employee Dependents Lookup](#)

[Employee Edit, Create, and Delete](#)

[Create Dependents](#)

3.Error checking: your application should be robust enough against bad inputs. For example, a ssn must be exactly 9 digits etc. Is the checking done by application or by database? Explain the trade-offs and give examples of by both.

sign
13.5

localhost/test/create.php

Create Employee Record

SSN: 1234567891

DOB: 11/14/2023

Name: vcbx

First Name: vtusv

Middle Initial: batsx

Last Name: vtajs

Address: znxgux

Employee Type: Salaried employee

Create Record

localhost/test/create.php

Error: Check constraint 'employee_chk_1' is violated.

Create Employee Record

SSN:

DOB: mm/dd/yyyy

Name:

First Name:

Middle Initial:

Last Name:

Address:

Employee Type: Salaried employee

Create Record

The error checking is done by database and not by the application. If the error checking is done by database the error is checked at all the places where the table is used. If error check is done by application coding then error will be checked only for form level.

3.Referential integrity constraint: let the user see the available input values at runtime (e.g. an existing ssn) during insertion and cascade deletes.

In dependents table . SSN has lookup value from employee table

Create Dependents Record

SSN ☒ 123456786

Name

Relationship

Cascade delete:

Dependents Table

SSN	Name	Relationship
123456786	lilly	sister
123456789	Kiran	Husband

Employee Table Browser

[Add New Employee](#)

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456786	2023-11-13	Asmita Dasari	Asmita		Dasari	elgtyar	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgtv	1	Edit Delete

In dependents table also record got deleted automatically related to SSN number 123456786

Dependents Table

SSN	Name	Relationship
123456789	Kiran	Husband