

INFORMATION ENGINEERING

Task 2

By student:

Vladislav V. Tsvetanov

Student number:

1909875

Course title:

Informational Engineering

ACCC4004

Module Lecturer:

Dr Anupam Mazumdar

Vladislav Tsvetanov (1909875)

[Email address]

1. I am providing some tables that I have created. Later on some of them were lost, but was a good practice to have some snips.

As I had two different approaches there are two different styles. I have to confess that I have run out of time and the end was not really well designed. With the following snips I want show my ability to have a basic design skill.

Casual_Staff_Account

Casual_ID	Date of joining the club	Terms & condition Signed
C01	12/01/2020	

Absence_ID AB001 **Normal Working Hours** 3 **Salary** #####

Emergency_contact_ID EC001

First_Aid_Certificate_Number 21435678

Medical_Details_ID MD001

Branch_Code(presently working at) BC001

Record: 1 of 1 | No Filter | Search

Staff_Personal_Information

NINo NINo **Staff_Code** Staff_Code

TitleFirst Name **Surname**

Telephone Number Telephone Number **Post Code** Post Code

Address Address

DOB DOB **SEX** SEX **Marital Status** Marital Status

FirstAid_Certificate

First Aid Cert	First Name	Surname	Experiense a	Expiry_Date	Click to Add
213232	Jhon	Grishan	2y and 46 days	03 October 2020	

Job_Types

Medical_De...

Salary

Staff_Accou...

Staff_Perso...

Training_Co...

Forms

Absence_Re...

Branches

Casual_Stuf...

Emergency ...

Emergency ...

FirstAid_Cer...

Medical_De...

Salary

Staff_Accou...

Staff_Perso...

Training_Co...

Forms

Branches

Casual_Stuf...

Emergency ...

Emergency ...

FirstAid_Cer...

Medical_De...

Salary

Staff_Accou...

Absence_Record

Absence_ID

Stuf_ID

AB001

005

Start Date

01/04/2020

End Date

14/05/2020

Reason

corona virus

Record: 1 of 1

Branches

Branch_Code

BC01

Branch Name

Surry

Branch Address

121 High Rd

Branch Post Code

SR 56 2 Y

Record: 1 of 6

All A...

Search...

Tables

Absence_Record

Branches

Casual_Stuff_Ac...

Emergency Con...

FirstAid_Certif...

Holidays

Job_Types

Medical_Details

Salary

Staff_Account

Staff_Personal_L...

Training_Courses

Forms

Casual_Stuff_Ac...

Emergency Con...

Emergency Con...

FirstAid_Certif...

Emergency Contact List1

Emergency Contact List

Emergency Contact ID

BC001

First Name

Jhon

Last Name

M'cenrol

Telephone Number

745453423

First line Address

12 Chelsea Mews

Post Code

W1 24 C13

email address

mtennisstar@jmts.com

First Name*(optional)*2

Last Name*2

Telephone Number*2

First line Address*2

Post Code*2

email address*2

First Name*3

Last Name*3

Telephone Number*3

First line Address*3

Post Code*3

email address*3

Record: 1 of 1

All A...

Search...

Tables

Absence_Record

Branches

Casual_Stuff_Ac...

Emergency Con...

FirstAid_Certif...

Holidays

Job_Types

Medical_Details

Salary

Staff_Account

Staff Personal L...

FirstAid_Certificate

FirstAid_Certificate

First Aid Certificate No

213232

Surname

Grishan

First Name

Jhon

Experiense as First Aider

2y and 46 days

Expiry_Date

03 October 2020

Record: 1 of 1

Views | Clipboard | Sort & Filter | Records | Find | Window

All A... Search...

Tables

- Absence_Record
- Branches
- Casual_Stuff_Ac...
- Emergency Con...
- FirstAid_Certific...
- Holidays
- Job_Types
- Medical_Details
- Salary
- Staff_Account
- Staff_Personal_I...

Medical_Details

Medical_Details_ID MD001

GP Practice Name Westminster MED

GP Practice Post Code WC1 2TN

Title Practition First Name Last Name

Dr Keith Barnard

GP Practition Phone No 78202000233

GP email DrKBarnard@WMED.com

Record: 1 of 1

Salary

Staf_Code 101

Bank_Account_No 5227215143005999

Sort_Code 201919

Bank_Name HSBC

Record: 1 of 4

Underneath can be seen a button which pools down a menu for the 3 jobs available in the sports club:

All A... Search...

Casual_Stuf... Emergency ... FirstAid_Cer... Holidays Job_Types Medical_De... Salary Staff_Accou... Staff_Perso... Training_Co...

Staff_Account

Staff_ID	Saff_Code	Absence_ID	Medical_Details_ID	Salary
1001	101	18181	1111111	2098

Branch_Code(PresentlyWorkingAtBranch) 11111118

Previous_Brunch_Worked_At

Previous_Brunch_Worked_Start_Date

Previous_Brunch_Worked_End_Date

Normal_Working_Hours 6

Date_Of_Joining 01/05/2020

Emergency_Contact_ID 121212

First_Aid_Certificate_ID 21314313

Terms & Conditions Sign Date 03/05/2020

Training_Cous_ID 1010101010

JOB Casual Stuff

Training Courses Holidays

Training_Courses_ID	Staff_Code	Name Of Course	Date	Comments
1	101	Relationship	12/11/2019	Outstandig
2	121	Child Guarding	24/09/2019	Satisfactory
4	102	Child safeguarding	12/01/2018	Briliant Course
5	104	First Aid Course	19/02/2020	Expire 18/02/21
(New)				

Record: 1 of 1

All A...

Search...

Casual_Stuf...

Emergency ...

FirstAid_Cer...

Holidays

Job_Types

Medical_De...

Salary

Staff_Accou...

Staff_Perso...

Training_Co...

Forms

Absence_Re...

Branches

Casual_Stuf...

Emergency ...

FirstAid_Cer...

Holidays

Medical_De...

Salary

Staff_Account

Staff_ID	Saff_Code	Absence_ID	Medical_Details_ID	Salary
1001	101	18181	1111111	2098

Branch_Code(PresentlyWorkingAtBrunch)

11111118

Date_Of_Joining

01/05/2020

Previous_Brunch_Worked_At

Emergency_Contact_ID

121212

Previous_Brunch_Worked_Start_Date

First_Aid_Certificate_ID

21314313

Previous_Brunch_Worked_End_Date

Terms & Conditions Sign Date

03/05/2020

Normal_Working_Hours

6

Training_Cous_ID

1010101010

JOBCasual Stuff

Training Courses

Holidays

Holiday_ID	Start Date	End Date	Duration/in Days	Remain Days	Remain Days Previous Years
Hol0001	01 May 2020	06 May 2020	6	19	14
			0	0	0

Record: 1 of 1

No Filter

Search

Training_Courses

Staff_Personal_Information

Salary

Table1

Field Name	Data Type	Description (Optional)
Emergency_Contact_ID	Number	6 Digit Unique Number
First_Aid_Certificate_ID	Large Number	The Certificate Number Its Unique And Can Be Checked In The Na
Normal_Working_Hours	Number	
Salary	Large Number	
Medical_Details_ID	Large Number	7 Digit Unique Number
Branch_Code(PresentlyWorkingAtBrunch)	Large Number	8 Digit Unique Number
Previous_Brunch_Worked_At	Short Text	
Previous_Brunch_Worked_Start_Date	Date/Time	
Previous_Brunch_Worked_End_Date	Date/Time	
Hollidays_ID	Large Number	9 Digit Unique Number
Training_Cous_ID	Large Number	10 Digit Unique Number
Job_Type_ID	Short Text	

Field Properties

General

Lookup

Field Size	255
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	Like "J?"
Validation Text	Entry must be 2 characters and begin with the letter J
Required	Yes
Allow Zero Length	Yes
Indexed	Yes (No Duplicates)
Unicode Compression	Yes
IME Mode	No Control
IME Sentence Mode	None
Text Align	General

An index speeds up searches and sorting on the field, but may slow updates. Selecting "Yes - No Duplicates" prohibits duplicate values in the field. Press F1 for help on indexed fields.

Queries builder evidence:

Casual_Staff_Account Query

Field:	Staff_Code	Telephone Number	Address	Post Code	NI No			
Table:	Casual_Staff_Account	Staff_Personal_Information	Staff_Personal_Information	Staff_Personal_Information	Staff_Personal_Information			
Sort:								
Show:	☒	☒	☒	☒	☒	☐	☐	☐
Criteria:								
or:								

Staff_Account2

Staff_Account Query

Staff_Code	sex	WorkingHou	JoinDate
001	m	6	10/05/2020
002	fm	8	01/01/2020
003			
*(New)			

Staff_Account2

Staff_Code	Phone	StaffName	FirstAid_Certificate_ID
001	087776655	yousuf	

11 May 2020

Page 1 of 1

SECURITY WARNING: Some active content has been disabled. Click for more details. Enable Content

Microsoft Access

Please Enter 2 digit code starting with BC

OK Help

Branch_Code	Branch Name	Branch Adres	Branch Post i	Click to Add
BCHD	Birmingham	12 Bon Str	BM12 7M	
BC01	Surry	121 High Rd	SR 56 2 Y	
BC02	Chelsea	29 Kings Road	WC16 5SA	
BC03	Brighton	20 High Road	BR13 5L	
BC04	Liverpool	1 Jhon Lennon St	L1 4C	
BC5				

Clipboard Sort & Filter Records Find Text Formatting

SECURITY WARNING Some active content has been disabled. Click for more details. Enable Content

Casual_Stuff_Account x FirstAid_Certificate x Emergency Contact List x Absence_Record x Brunches x Medical_Details x Holidays x

Holiday_ID	Start Date	End Date	Duration/in Days	Remain Days	Remain Days Previous Years	Click to Add
Hol0001		06 May 2020	6	19	14	
			0	0	0	

Microsoft Access

You must enter a value in the 'Holidays.Start Date' field.

OK Help

Casual_Stuff_Account x FirstAid_Certificate x Emergency Contact List x Absence_Record x Brunches x Medical_Details x

Job_Type_ID	Staff_Code	Fitness Instructor	Swimming Pool At	Casual	Click to Add
JTFI		☒	☐	☐	
		☐	☐	☐	

Microsoft Access

You must enter a value in the 'Job_Types.Staff_Code' field.

OK Help

SECURITY WARNING Some active content has been disabled. Click for more details. Enable Content

All Accounts x Casual_Stuff_Account x FirstAid_Certificate x Emergency Contact List x Absence_Record x Brunches x Medical_Details x

Medical_Det	GP Practice Name	GP Practition Phone	GP email	Practition First Name	Last Name	Title	GP Practice Post	Click to Add
MD001	Westminster MED	78202000233 DrKBarnard@WMED.com	Keith	Barnard	Dr	WC1 2TN		

File Home Create External Data Database Tools Help Fields Table Tell me what you want to do

Calibri (Detail) 11

SECURITY WARNING Some active content has been disabled. Click for more details. Enable Content

Salary x Staff_Personal_Information x Staff_Account x Casual_Stuff_Account x

Casual_ID	Date of joinin	Terms & Cr	Absence_ID	Emergency	First_Aid	Normal Working Hours	Salary	Medical_Details_ID	Branch_Code	Click to Add
CD1	12/01/2020		AB001	EC001	21435678	3	£1,222.00 MD001	BC001		
							£0.00			

Navigation Pane

Job.Types

Job_Type_ID

Job_Type

Field: Job_Type

Table: Job.Types

Sort: Ascending

Show: ☒

Criteria: or

Selection type: Field List Properties

General

Alias: Job.Types

Source:

Holiday Remaining

Staff_ID	Remain Days	Remain Days Previous Years
1001	19	14

Record: 1 of 1

No Filter Search

Search...

Casual_Stuf...
Emergency ...
FirstAid_Cer...
Holidays
Job.Types
Medical_De...
Salary
Staff_Accou...
Staff_Perso...
Training.Co...
Forms
Absence_Re...
Branches
Casual_Stuf...
Emergency ...
FirstAid_Cer...
Holidays
Medical_De...
Salary
Staff_Accou...
Staff_Perso...
Training.Co...
Reports
FirstAid_Cer...

Staff_Account

Staff_Account

Staff_ID	Staff_Code	Absence_ID	Medical_Details_ID	Salary
1001	101	18181	1111111	2098

JOB

Casual Staff
Wimming Pool Attendent
Fitness Instructor
1/05/2020
121212
Casual Staff
First_Aid_Certificate_ID
21314313
Terms & Conditions Sign Date
03/05/2020
Brunch_Code(PresentlyWorkingAtBrunch)
11111118
Previous_Brunch_Worked_At
Previous_Brunch_Worked_Start_Date
Previous_Brunch_Worked_End_Date
Holidays_ID
Normal_Working_Hours
6
Training_Cous_ID
1010101010

Record: 1 of 1

Staff_Personal_Information1

Lenght Of Service _AgeGender_Report

Staff_Code	DOB	SEX	Date_Of_Joining	Previous_Brunch_Worked_Start_Date	Previous_Brunch_Worked_End_Date
101	24/08/1999	Male	01/05/2020		
102	21/09/1998	Male			
103	21/11/1997	Femal			

11 May 2020

Page 1 of 1

FirstAid_Certificate

FirstAid_Certificate

First Aid Certificate No	Experience as First Aider	Expiry_Date
213232	2y and 46 days	03 October 2020
215431	1year 23 days	31 May 2020

11 May 2020

Page 1 of 1

Staff_Record

inches

sual_Stuff_Ac...

ergency Con...

stAid_Certific...

lildays

Types

Medical_Details

ary

iff_Account

iff_Personal_I...

ining_Courses

sual_Stuff_Ac...

iff_Account

iff_Personal_I...

Staff_Account

Staff_Account

Staff_ID	Saff_Code	Absence_ID	Medical_Details_ID	Salary
1001	101	18181	1111111	2098

Date_Of_Joining

01/05/2020

Emergency_Contact_ID

121212

First_Aid_Certificate_ID

21314313

Terms & Conditions Sighn Date

03/05/2020

Branch_Code(PresentlyWorkingAtBranch)

11111118

Previous_Brunch_Worked_At

Previous_Brunch_Worked_Start_Date

Previous_Brunch_Worked_End_Date

Hollidays_ID

Normal_Working_Hours

6

Training_Cous_ID

1010101010

Record: 1 of 1

Training_Courses

Staff_Personal_Information

Salary

Table1

Field Name	Data Type	Description (Optional)
Staff_ID	Number	

Field Properties

General

Lookup

Field Size	Long Integer
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	0
Validation Rule	Like "????"
Validation Text	
Required	Yes
Indexed	No
Text Align	General

An index speeds up searches a field, but may slow updates. Se Duplicates" prohibits duplicate Press F1 for help on ind

Evidence of validations and message displayed:

The screenshot shows the Microsoft Access interface with the 'Salary' table selected. A message box titled 'Microsoft Access' is displayed, stating: 'The changes you requested to the table were not successful because they would create duplicate values in the index, primary key, or relationship. Change the data in the field or fields that contain duplicate data, remove the index, or redefine the index to permit duplicate entries and try again.' The message box has 'OK' and 'Help' buttons.

Staf_Code	Bank_Account_No	Sort_Code	Bank_Name
101	5227215143005999	201919	HSBC
101	5123669675266038	112233	Loyds
0	0	0	

The screenshot shows a 'SECURITY WARNING' banner at the top: 'Some active content has been disabled. Click for more details.' Below the banner, the 'Absence_Record' table is displayed. The table has columns: Absence_ID, Stuf_ID, Start Date, End Date, and Reason. The data row shows: AB001, 005, 01/04/2020, 14/05/2020, corona virus.

Absence_ID	Stuf_ID	Start Date	End Date	Reason
AB001	005	01/04/2020	14/05/2020	corona virus

The screenshot shows the Microsoft Access interface with the 'Casual_Staff_Account' table selected. A message box titled 'Microsoft Access' is displayed, stating: 'Please Enter a 5 digit code Starting with AB'. The message box has 'OK' and 'Help' buttons.

Absence_ID	Stuf_ID	Start Date	End Date	Reason
ac123	005	01/04/2020	14/05/2020	corona virus

The screenshot shows the Microsoft Access interface with the 'Salary' table selected. A message box titled 'Microsoft Access' is displayed, stating: 'One or more values are prohibited by the validation rule 'Like "???"' set for 'Salary.Staf_Code'. Enter a value that the expression for this field can accept.' The message box has 'OK' and 'Help' buttons.

Staf_Code	Bank_Account_No	Sort_Code	Bank_Name
101	5227215143005999	201919	HSBC
1021	5123669675266038	112233	Loyds
0	0	0	

SECURITY WARNING: Some active content has been disabled. Click for more details. [Enable Content](#)

Salary × Staff_Personal_Information × Staff_Account × Casual_Staff_Account × FirstAid_Certificate

Emergency C Click to Add

EC12

Microsoft Access

! Please enter EC followed by 3 digit number

OK Help

Records Find Text Formatting

Salary × Staff_Account ×

lical_Det	Branch_Code	Previous_Bru	Previous_Bru	Previous_Bru	Hollidays_ID	Training_Cou	Job_Type_ID	Click to A
1000001	10000011	No			111111111		01	
0	0						0	

Microsoft Access

! Entry must be 2 characters and begin with the letter J

OK Help

Clipboard Sort & Filter Records Find Text Formatting

AC... Training_Courses × Staff_Personal_Information × Salary × Staff_Account ×

Staff_ID Staff_Code Date_Of_Joir Terms & Con Absence_ID Emergency_C First_Aid_Cei Normal_Wor Salary Medical_Det Branch_Code Previou

22 0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0

Salary

Staff_Account

Staff_Personal_Inf...

Training_Courses

Microsoft Access

! Entry must be 4 Digit Unige Number

OK Help

2. Next 4 snips a prove of my login and navigation form with all appropriate buttons:

The image displays two screenshots of a Microsoft Access application. The top screenshot shows a 'Login Form' with a blue header and a white body. It contains two input fields: 'Username' with the value 'ppp' and 'Password' with the value '****'. Below these fields are two buttons: 'Login' and 'Close Form'. A 'Microsoft Access' dialog box is open in the center, displaying the message 'Username and Password correct' and an 'OK' button. The bottom screenshot shows a 'Navigation Form' with a blue header and a white body. The header contains a tabbed interface with the following tabs: 'Staff_AccountMain', 'Branches', 'EmergencyContacts', 'First Aiders', 'Holidays', 'Job_Types', 'Medical_Details', 'Salary', and 'Training_Courses'. The 'Staff_AccountMain' tab is selected, and the form displays a list of staff accounts. The first account is 'Staff_Account1'. The form contains several input fields for staff details: 'Staff_Code' (001), 'PevBranchTo' (empty), 'title' (mr), 'Holiday_ID' (empty), 'StaffName' (yousuf), 'TrainingCourse_' (dropdown menu), 'StaffSurname' (aslan), 'Branch_Code' (dropdown menu), 'Address' (woodford av), 'MedicalDetails_' (dropdown menu), 'Phone' (087776655), 'NIN' (ST 3344455M), 'sex' (m), and 'MaritalStatus' (m). At the bottom right of the form are three buttons: 'Add Record', 'Delete Record', and 'Close Form'.

Microsoft Access

Username and Password correct

OK

Navigation Form

Staff_AccountMain Branches EmergencyContacts First Aiders Holidays Job_Types Medical_Details Salary Training_Courses

Staff_Account1

Staff_Code 001 PevBranchTo

title mr Holiday_ID

StaffName yousuf TrainingCourse_

StaffSurname aslan Branch_Code

Address woodford av MedicalDetails_

Phone 087776655

NIN ST 3344455M

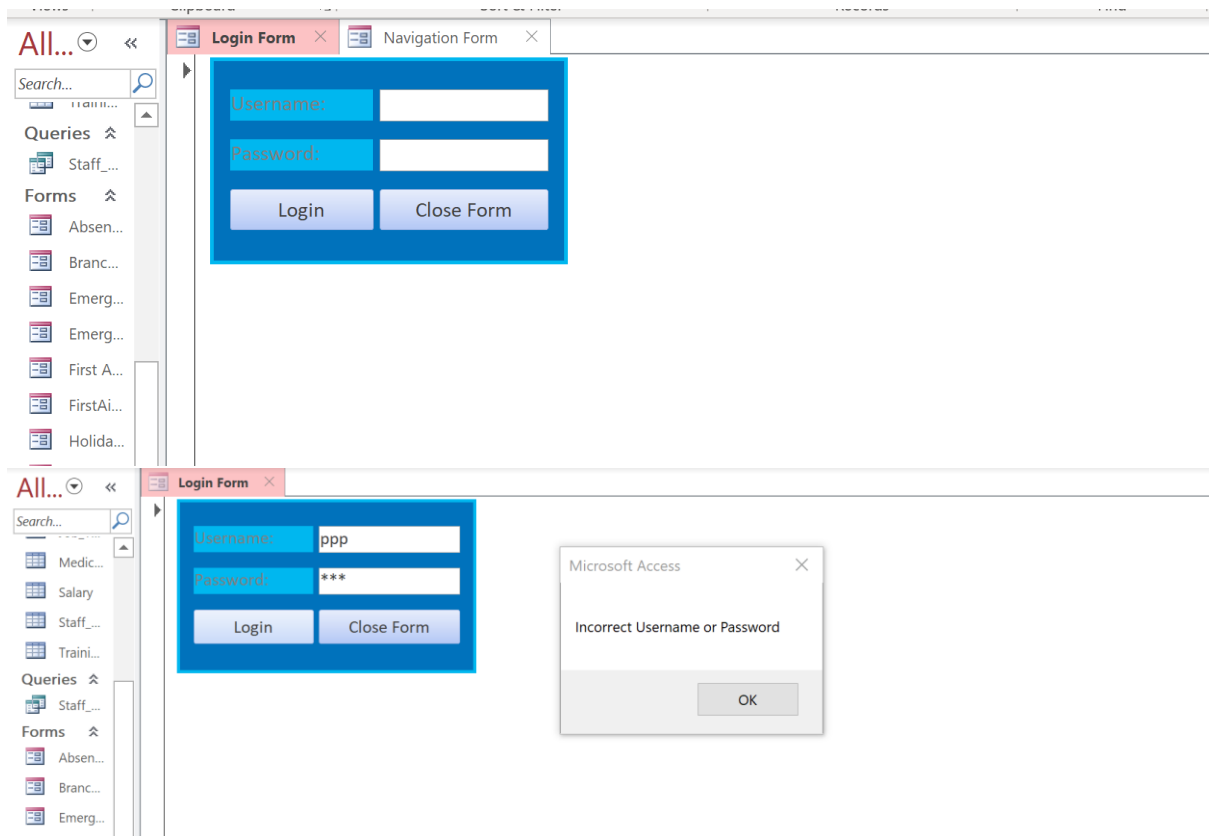
sex m

MaritalStatus m

Add Record

Delete Record

Close Form



User Guide:

1. To login use the appropriate user name("ppp") and password("1111")
2. you are with the navigation form where you can find 3 buttons. You can add record, delete or close form.
3. Some useful reports can be found inside
4. please contact me if you need further info and more queries and different types of reports. The program can be upgraded