


ITMD 422 Lab 1

Consultant Form

ConsultForm

Saturday, September 7, 2019
2:39:58 PM

Functional Solutions, Inc.

ConsultantID

111

LastName

Johnson

HourlyFee

\$78.00

YearsOfService

11

Consultant Record

Sort & Filter

Records

Find

Relationships

Clients

Consultants

	ConsultantID	LastName	HourlyFee	YearsOfServ	Click to Add
+	101	Patel	\$15.00	0	
+	102	Smithers	\$12.00	5	
+	103	DeMille	\$45.00	20	
+	104	Parker	\$28.00	22	
+	105	Gonzalez	\$35.00	17	
+	106	Pappas	\$50.00	19	
+	107	McDonald	\$20.00	12	
+	108	Larson	\$32.00	5	
+	109	Post	\$72.00	17	
+	111	Johnson	\$78.00	11	
*					

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Query 1

The screenshot shows the Microsoft Access interface. On the left, the 'All Access Objects' pane is visible with 'Query1' selected under the 'Queries' section. The main window displays the 'Query1' results table. The table has two columns: 'EndDate' and 'ConsultantID'. The data rows are:

EndDate	ConsultantID
5/17/2020	105
9/15/2020	105
5/22/2021	107

Query 2

The screenshot shows the Microsoft Access interface with 'Query2' selected in the 'All Access Objects' pane. The main window displays the 'Query2' results table. The table has eight columns: 'ClientID', 'LName', 'StartDate', 'EndDate', 'TotalCharge', 'ConsultantID', and 'Click to Add'. The data rows are:

ClientID	LName	StartDate	EndDate	TotalCharge	ConsultantID	Click to Add
A202	Chan	3/21/2020	4/30/2020	\$960.00	101	
A350	Chin	3/17/2020	3/31/2020	\$1,222.00		
B220	John	3/21/2020		\$1,759.50	102	
B223	Sherman	3/15/2020	10/1/2020	\$2,122.00	105	
B315	Peters	3/17/2020	10/1/2020	\$1,823.79	105	
D010	Henry	4/22/2020	10/1/2020	\$1,960.00	107	

Field

No field to the c

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Query 3

CloseAlt+F4

All Access Objects

Search...

Tables

Back_Up_HP

Clients

Clients\$ImportErrors

Consultants

Queries

Query3

ModerateProfitConsultants

Query1

Query2

Forms

ConsultForm

Sort & Filter

Records

Find

Text Formatting

Relationships

Clients

Consultants

Query1

Query2

Query3

Back_Up_HP

ClientID	ConsultantID	YearsOfService
A202	101	0
B220	102	5
B315	105	17
B223	105	17
D010	107	12
*		

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[illegible]

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Query 5

This query is intended to display consultants who are of great value to the company either because of their years of service/pay rate or by the amount of money they bring in.

Having a (fee over \$30 AND over 10 years worked) OR (a client who is charged >\$1000) will include you in this query.

Sort & Filter		Records		Find		Text Formatting	
Relationships	Clients	Consultants	Back_Up_HP	Query4	Query5		
ConsultantID	LastName	HourlyFee	YearsOfServ	ClientID	LName	TotalCharge	
102	Smithers	\$12.00	5	B220	John	\$1,759.50	
105	Gonzalez	\$35.00	17	B315	Peters	\$1,823.79	
105	Gonzalez	\$35.00	17	B223	Sherman	\$2,122.00	
107	McDonald	\$20.00	12	D010	Henry	\$1,960.00	
*							

The screenshot displays the Microsoft Access interface for Query5. The design grid is configured as follows:

Field:	ConsultantID	LastName	HourlyFee	YearsOfService	ClientID	LName	TotalCharge
Table:	Consultants	Consultants	Consultants	Consultants	Clients	Clients	Clients
Sort:							
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			> 30	> 10			> 1000
or:							

The Relationships window shows a one-to-many relationship between the **ClientID** field in the **Clients** table and the **ConsultantID** field in the **Consultants** table.

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Report 0

rptClients

StartDate by M	StartDate ClientID	LName	EndDate	TotalCharge
March 2020	3/15/2020 B223	Sherman	10/1/2020	\$2,122.00
	3/17/2020 B315	Peters	10/1/2020	\$1,823.79
	3/17/2020 A350	Chin	3/31/2020	\$1,222.00
	3/21/2020 B220	John		\$1,759.50
	3/21/2020 A202	Chan	4/30/2020	\$960.00
April 2020	4/22/2020 D010	Henry	10/1/2020	\$1,960.00

Report 1

ViewsClipboardSort & FilterRecordsFindText Formatting

All Access Objects

Search...

Tables

Back_Up_HP

Clients

Clients\$ImportErrors

Consultants

Queries

Query4

Query3

ModerateProfitConsultants

Query1

Query5

Query2

Forms

ConsultForm

Reports

Report1

rptClients

RelationshipsClientsConsultantsBack_Up_HPQuery4Query5Consultants

Consultants

HourlyFee	YearsOfService	consultantID	LastName
\$12	5	102	Smithers
\$15	0	101	Patel
\$20	12	107	McDonald
\$28	22	104	Parker
\$32	5	108	Larson
\$35	17	105	Gonzalez
\$45	20	103	DeMille
\$50	19	106	Pappas
\$72	17	109	Post
\$78	11	111	Johnson

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Report 2

Report2

ConsultantID	ClientID
101	A202
102	B220
105	B223
	B315
107	D010

Report 3

Report3

HourlyFee	ConsultantID	LastName	Service	TotalCharge	ClientID	LastName
\$12	102	Smithers	5	\$1,759.50	B220	John
\$20	107	McDonald	12	\$1,960.00	D010	Henry
\$35	105	Gonzalez	17	\$1,823.79	B315	Peters
				\$2,122.00	B223	Sherman

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Report 4

Clients						Saturday, September 7, 2019
						17:29
ClientID	LName	StartDate	EndDate	TotalCharge	ConsultantID	
A202	Chan	3/21/2020	4/30/2020	\$960.00	101	
A350	Chin	3/17/2020	3/31/2020	\$1,222.00		
B220	John	3/21/2020		\$1,759.50	102	
B315	Peters	3/17/2020	10/1/2020	\$1,823.79	105	
B223	Sherman	3/15/2020	10/1/2020	\$2,122.00	105	
D010	Henry	4/22/2020	10/1/2020	\$1,960.00	107	
				\$9,847.29		

Report 5

Report5

ConsultantID	101
TotalCharge LastName	ClientID LName
\$960.00 Patel	A202 Chan

ConsultantID	102
TotalCharge LastName	ClientID LName
\$1,759.50 Smithers	B220 John

ConsultantID	105
TotalCharge LastName	ClientID LName
\$1,823.79 Gonzalez	B315 Peters
\$2,122.00 Gonzalez	B223 Sherman

ConsultantID	107
TotalCharge LastName	ClientID LName
\$1,960.00 McDonald	D010 Henry

Administrative Task 1

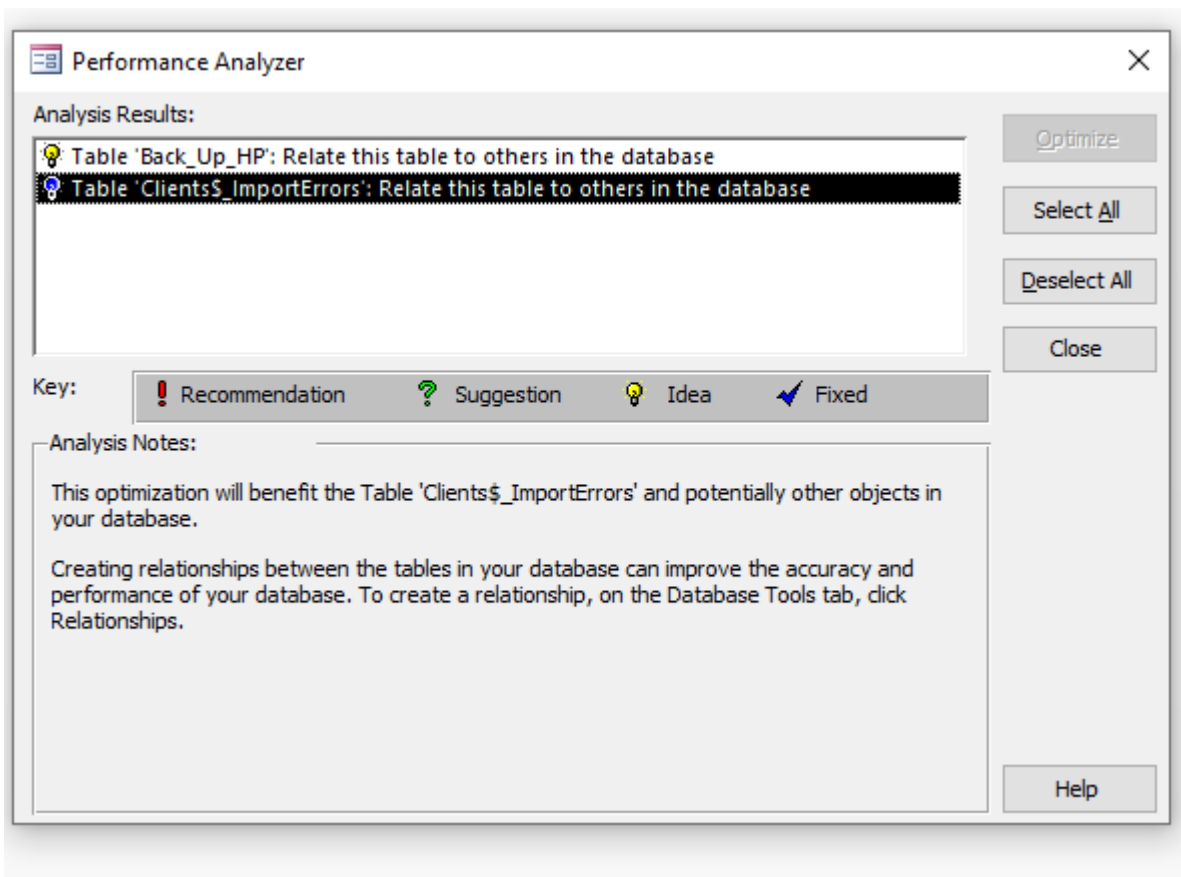
\\boxsvr\ITMD422\labs\01\BusinessData_Henry_Post.accdb
Table: Back_Up_HP

Saturday, September 7, 2019
Page: 1

Properties

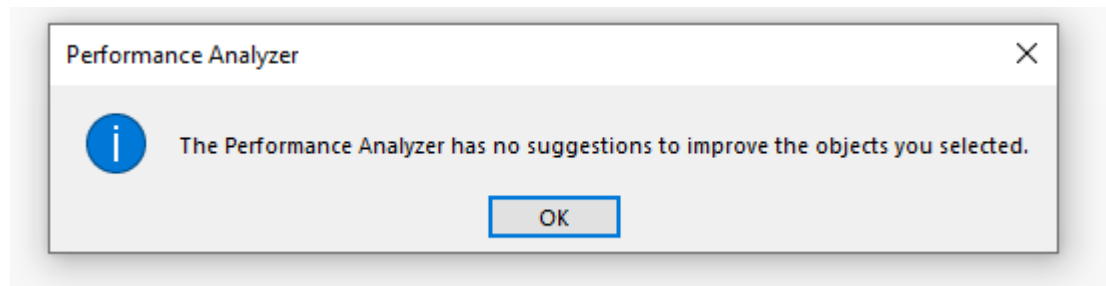
DateCreated:	9/7/2019 4:42:41 PM	LastUpdated:	9/7/2019 4:42:41 PM
RecordCount:	5	Updatable:	True

Administrative Task 2



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Administrative Task 3



Administrative Task 4

Relationships | Analyze | Move Data | Add-Ins

Query5

ConsultantID	LastName	HourlyFee	YearsOfServ	Client
102	Smithers	\$12.00	5	B220
105	Gonzalez	\$35.00	17	B315
105	Gonzalez	\$35.00	17	B223
107	McDonald	\$20.00	12	D010

*

Object Dependencies


Query: Query5 Refresh

☐ Objects that depend on me

☒ Objects that I depend on

- Tables
 - Clients
 - Consultants
- Queries
 - None
- Forms
 - None
- Reports
 - None

Administrative Task 5

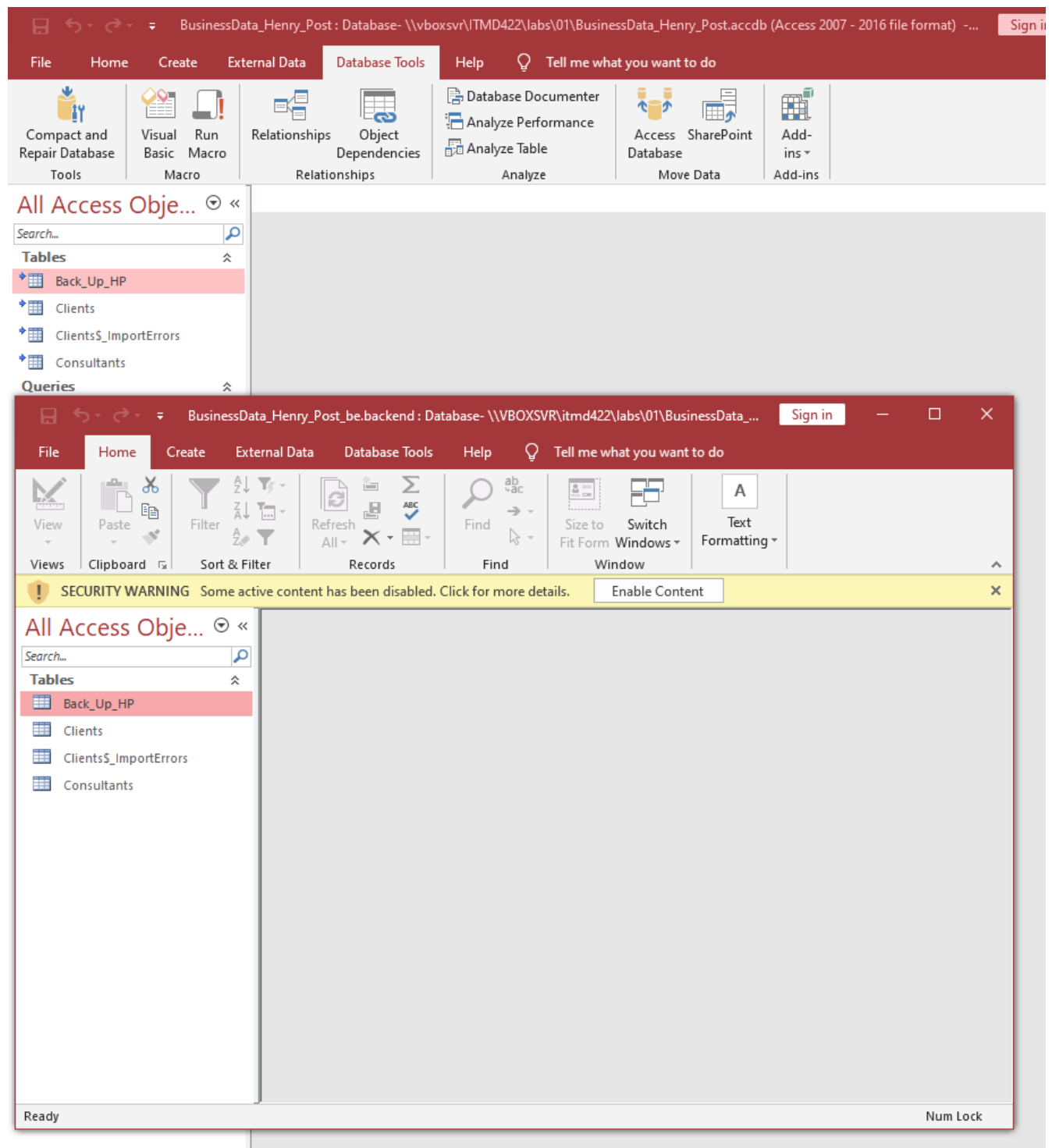
 BusinessData_Henry_Post_2019-09-07.bak.accdb

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Split database



Questions and Reflections

Data Types

Some data types used were integers, currency, dates, and strings.

Database Tables

The Clients table has a foreign key reference to the Consultants table.

SQL

SQL is an acronym for “Structured Query Language”. It is related to

A table in MS Access does not have an SQL view. However, queries do.

You can open a query’s SQL view by opening the query. Then, on the top bar, right-click the query and click on “SQL View”.

Data Queries in MS Access

There were 2 fields in the first query whose value was queried: Both [Clients][EndDate] and [Consultants][ConsultantID].

Report Writing in MS Access

When using the report wizard to create a report, the sort order that appears by default is ‘Ascending’.

Database Documenter

To see user permissions:

1. Click on the “Database Tools” ribbon.
2. Click “Database Documenter” under the “Analyze” tab.
3. Select the “Current Database” tab.
4. Check “Properties” and click “OK”.

User Permissions

admin

Delete, Read Permissions, Set Permissions, Change Owner, Open/Run, Open Exclusive

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Enforcement of Referential Integrity

Referential integrity is the idea that relationships between tables that are related should be enforced.

For example, if I change an ID that is referred to by 3 other tables as a foreign key, it **MUST** be updated in all other 3 changes for referential integrity to be preserved.

Enforcing referential integrity is important because data consistency depends upon it. Without this, table relationships would become broken and your database would soon become a useless pile of junk with no relationships between tables that should be related.