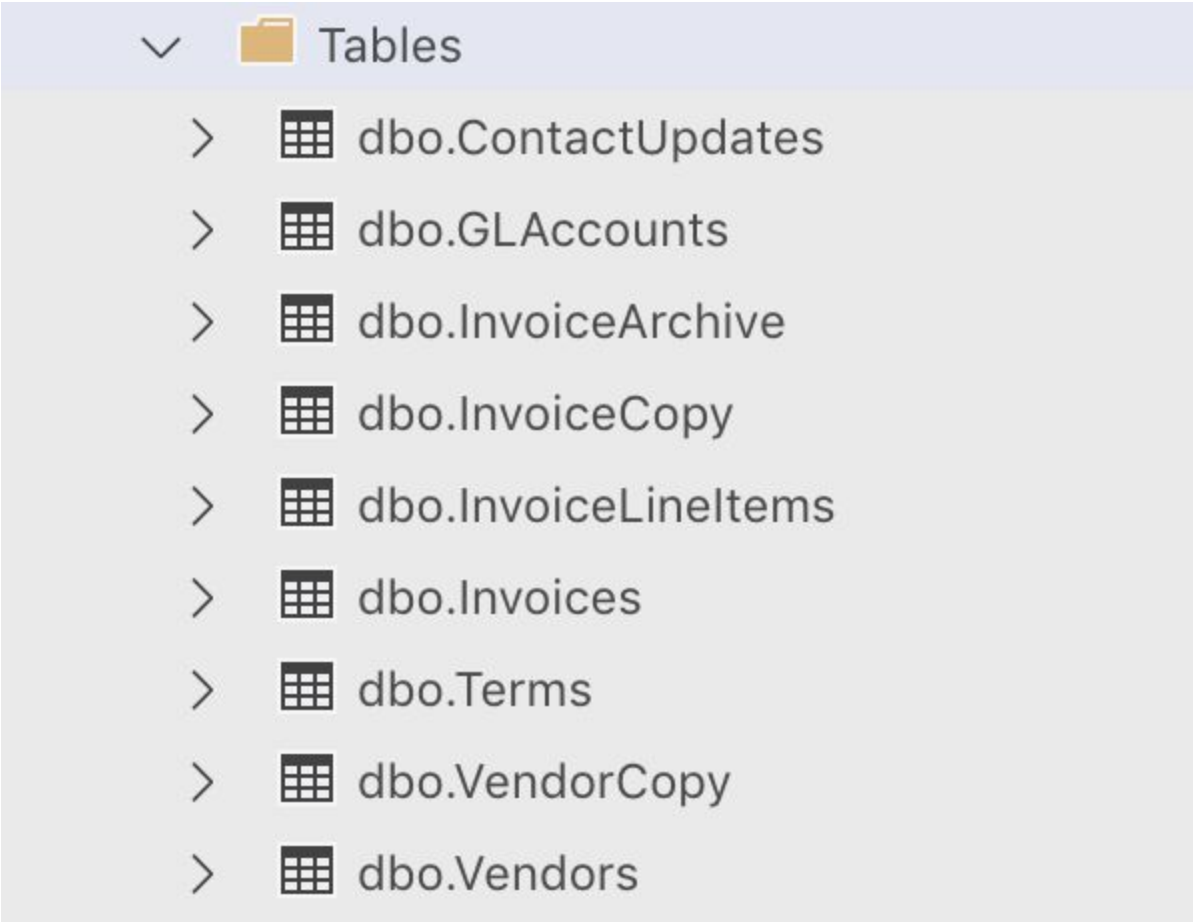
Kamran Shaikh
Lab 4

1)
Code

```
SELECT * INTO InvoiceCopy FROM Invoices
SELECT * INTO VendorCopy FROM Vendors
```

Comments)
Copy the whole Invoice Table into InvoiceCopy
Copy the whole Vendor Table into VendorCopy



2)

Code

```
INSERT INTO InvoiceCopy (VendorID, InvoiceTotal, TermsID, InvoiceNumber, PaymentTotal,
InvoiceDueDate, InvoiceDate, CreditTotal) VALUES (50, 581.04, 4, 'CS-581-04', 0.00,
'07/08/12', '6/21/12', 0.00)
```

Comments)

Inserting a new row with new values for VendorID, InvoiceTotal, TermsID, InvoiceNumber, PaymentTotal, InvoiceDueDate, InvoiceDate, and CreditTotal.

5	119	50	CS-581-04	2012-06-21 00:00:00	581.0400	0.0000	0.0000	4	2012-07-08 00:00:00	*NULL*

3)

Code

```
SELECT DefaultAccountNo FROM VendorCopy WHERE DefaultAccountNo = 581
UPDATE VendorCopy SET DefaultAccountNo = 581 WHERE DefaultAccountNo = 540
SELECT DefaultAccountNo FROM VendorCopy WHERE DefaultAccountNo = 581
```

Comments)

Change all DefaultAccountNo that were 540 to 581 in the VendorCopy table

Results Messages

	DefaultAccount…

	DefaultAccountNo
1	581
2	581
3	581
4	581
5	581
6	581
7	581
8	581
9	581
10	581
11	581
12	581
13	581
14	581
15	581

4)

Code

```
SELECT * FROM InvoiceCopy WHERE TermsID = 5
UPDATE InvoiceCopy SET TermsID = 2 WHERE VendorID IN (SELECT VendorID FROM VendorCopy
WHERE DefaultTermsID = 2);
SELECT * FROM InvoiceCopy WHERE TermsID = 5
```

Comments)

Update Terms ID = 2 in InvoiceCopwhen when DefaultTermsID in VendorCopy Table = 2

Results Messages

	InvoiceID	VendorID	InvoiceNumber	InvoiceDate	InvoiceTotal	PaymentTotal
1	12	96	I77271-001	2015-12-26 00:00:00	662.0000	662.0000
2	13	95	111-92R-10096	2015-12-30 00:00:00	16.3300	16.3300
3	16	97	21-4748363	2016-01-03 00:00:00	9.9500	9.9500
4	21	119	10843	2016-01-11 00:00:00	4901.2600	4901.2600
5	23	97	21-4923721	2016-01-13 00:00:00	9.9500	9.9500
6	44	95	111-92R-10094	2016-02-01 00:00:00	19.6700	19.6700
7	47	83	31359783	2016-02-03 00:00:00	1575.0000	1575.0000
8	49	95	111-92R-10097	2016-02-04 00:00:00	16.3300	16.3300
9	53	95	111-92R-10092	2016-02-09 00:00:00	46.2100	46.2100
10	68	81	MAB01489	2016-02-21 00:00:00	936.9300	936.9300

	InvoiceID	VendorID	InvoiceNumber	InvoiceDate	InvoiceTotal	PaymentTotal
9	53	95	111-92R-10092	2016-02-09 00:00:00	46.2100	46.2100
10	68	81	MAB01489	2016-02-21 00:00:00	936.9300	936.9300
11	69	80	133560	2016-02-22 00:00:00	175.0000	175.0000
12	82	94	203339-13	2016-03-05 00:00:00	17.5000	17.5000
13	83	95	111-92R-10093	2016-03-06 00:00:00	39.7700	39.7700
14	91	95	111-92R-10095	2016-03-15 00:00:00	32.7000	32.7000

5)

Code)

```
SELECT VendorState FROM VendorCopy ORDER BY VendorState
DELETE VendorCopy WHERE VendorState = 'CA'
SELECT VendorState FROM VendorCopy ORDER BY VendorState
```

Comments)

Deletes rows that include state = ‘CA’ from VendorCopy Table

Results Messages

	VendorState
1	AZ
2	AZ
3	AZ
4	CA
5	CA
6	CA
7	CA
8	CA
9	CA
10	CA

	VendorState
1	AZ
2	AZ
3	AZ
4	CT
5	DC
6	DC

6)

Code

```
SELECT VendorState FROM VendorCopy WHERE VendorState NOT IN (SELECT DISTINCT
VendorState FROM VendorCopy JOIN InvoiceCopy ON VendorCopy.VendorID =
InvoiceCopy.VendorID)
DELETE VendorCopy WHERE VendorState NOT IN (SELECT DISTINCT VendorState FROM
VendorCopy JOIN InvoiceCopy ON VendorCopy.VendorID = InvoiceCopy.VendorID)
SELECT VendorState FROM VendorCopy WHERE VendorState NOT IN (SELECT DISTINCT
VendorState FROM VendorCopy JOIN InvoiceCopy ON VendorCopy.VendorID =
InvoiceCopy.VendorID)
```

Comments)

Deletes rows in Vendor Copy where states have not been shown from vendors who had an invoice

7)

Code

```
SELECT CAST(InvoiceTotal AS decimal(10,3)) AS Column1, CAST(InvoiceTotal AS
varchar(10)) AS Column2, CONVERT(decimal(10,3),InvoiceTotal) AS Column3,
TRY_CONVERT(varchar(10),InvoiceTotal,2) AS Column4 FROM Invoices
```

Comments)

Converts InvoiceTotal to different data types. Use TRY_CONVERT to choose style 2 for Column 4

Results Messages

	Column1	Column2	Column3	Column4
1	3813.330	3813.33	3813.330	3813.33
2	40.200	40.20	40.200	40.200(
3	138.750	138.75	138.750	138.75(
4	144.700	144.70	144.700	144.70(
5	15.500	15.50	15.500	15.500(
6	42.750	42.75	42.750	42.750(
7	172.500	172.50	172.500	172.50(
8	95.000	95.00	95.000	95.000(
9	601.950	601.95	601.950	601.95(
10	42.670	42.67	42.670	42.670(
11	42.500	42.50	42.500	42.500(
12	662.000	662.00	662.000	662.00(
13	16.330	16.33	16.330	16.330(
14	6.000	6.00	6.000	6.0000
15	856.920	856.92	856.920	856.92(
16	9.950	9.95	9.950	9.9500
17	10.000	10.00	10.000	10.000(
18	104.000	104.00	104.000	104.00(
19	116.540	116.54	116.540	116.54(

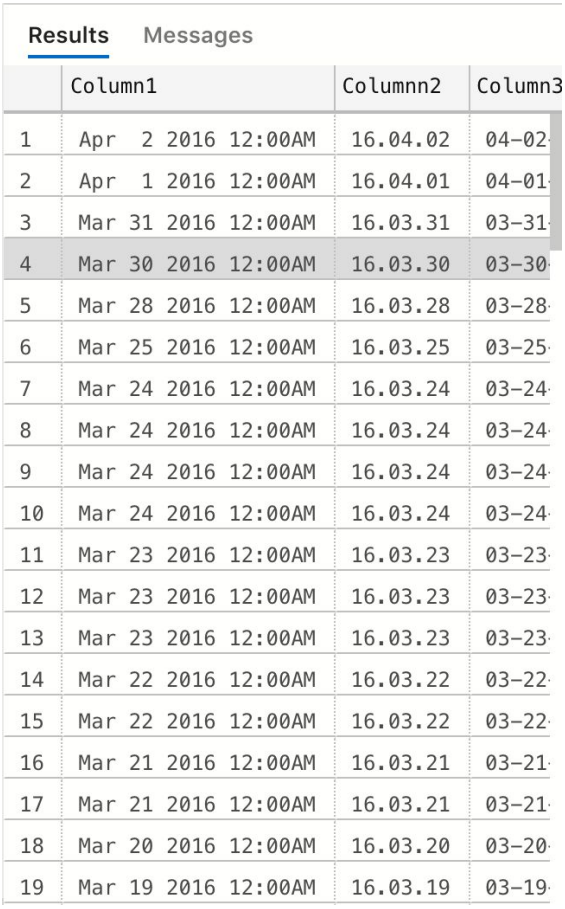
8)

Code

```
SELECT CAST(InvoiceDate AS varchar) AS Column1, TRY_CONVERT(varchar,InvoiceDate, 2) AS Columnn2, TRY_CONVERT(varchar,InvoiceDate,10) AS Column3,CAST(InvoiceDate as real) AS Column4 FROM Invoices
```

Comments)

Converts InvoiceDate to different data types. Use TRY_CONVERT to choose style 2 for Column 2 and style 10 for Column3.



Results Messages

	Column1	Columnn2	Column3
1	Apr 2 2016 12:00AM	16.04.02	04-02
2	Apr 1 2016 12:00AM	16.04.01	04-01
3	Mar 31 2016 12:00AM	16.03.31	03-31
4	Mar 30 2016 12:00AM	16.03.30	03-30
5	Mar 28 2016 12:00AM	16.03.28	03-28
6	Mar 25 2016 12:00AM	16.03.25	03-25
7	Mar 24 2016 12:00AM	16.03.24	03-24
8	Mar 24 2016 12:00AM	16.03.24	03-24
9	Mar 24 2016 12:00AM	16.03.24	03-24
10	Mar 24 2016 12:00AM	16.03.24	03-24
11	Mar 23 2016 12:00AM	16.03.23	03-23
12	Mar 23 2016 12:00AM	16.03.23	03-23
13	Mar 23 2016 12:00AM	16.03.23	03-23
14	Mar 22 2016 12:00AM	16.03.22	03-22
15	Mar 22 2016 12:00AM	16.03.22	03-22
16	Mar 21 2016 12:00AM	16.03.21	03-21
17	Mar 21 2016 12:00AM	16.03.21	03-21
18	Mar 20 2016 12:00AM	16.03.20	03-20
19	Mar 19 2016 12:00AM	16.03.19	03-19

Remarks)
Overall I felt like this lab was mediocre. I felt confident in my answers but went back to check them over and realized I did not write the correct query to gather information from the table. I found it a hassle when I messed up since I had to recreate a copy of the table. However, this lab was very beneficial and taught me how to convert datatypes the right way.