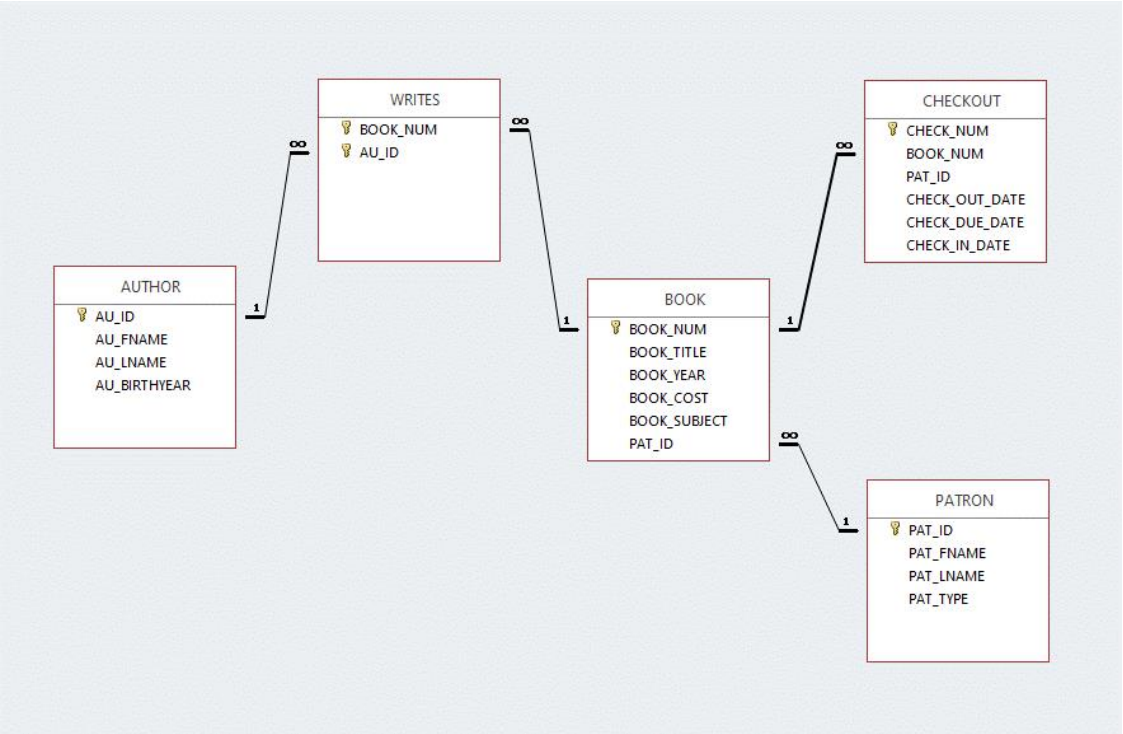
Team: GOD (Granter of Data)

Team Member: Sohal Patel, Gabriel Harper, Jose Andre, Carrie Doucette, Janelle Hall

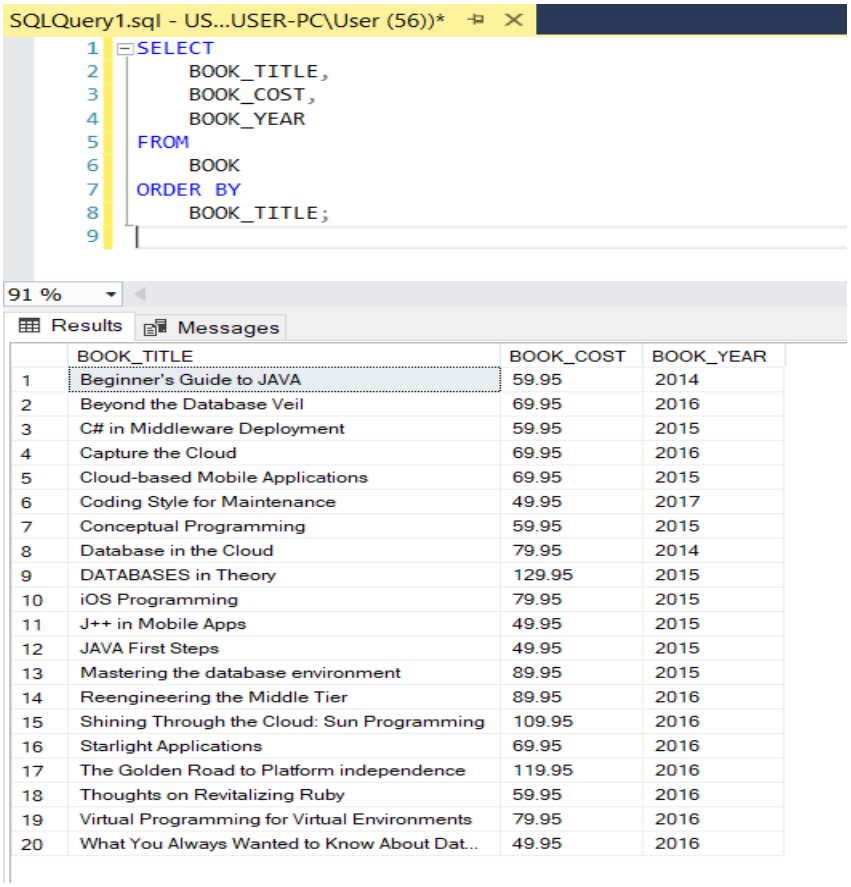
I.



II.

56.

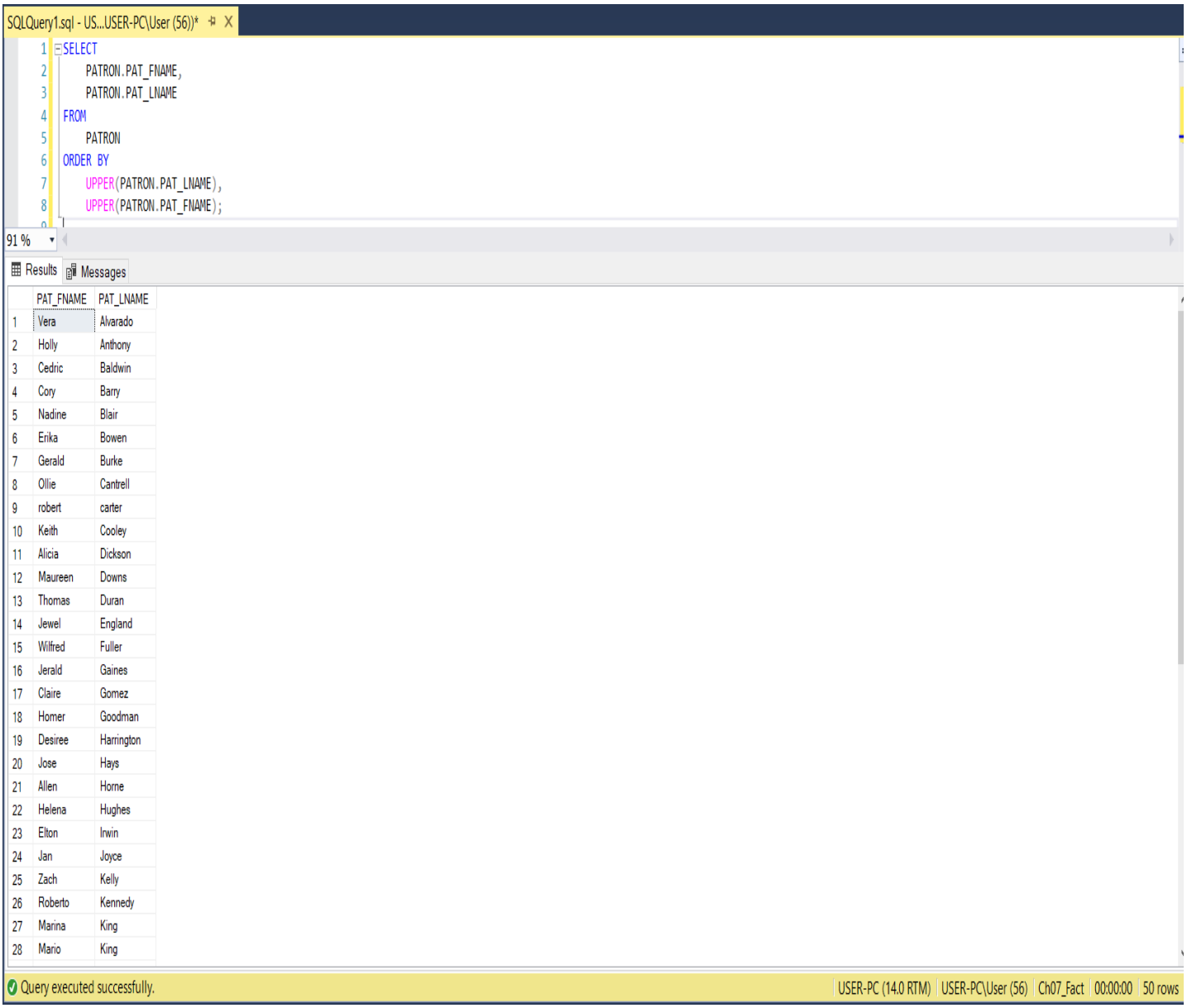
```
SELECT
	BOOK_TITLE,
	BOOK_COST,
	BOOK_YEAR
FROM
	BOOK
ORDER BY
	BOOK_TITLE;
```



	BOOK_TITLE	BOOK_COST	BOOK_YEAR
1	Beginner's Guide to JAVA	59.95	2014
2	Beyond the Database Veil	69.95	2016
3	C# in Middleware Deployment	59.95	2015
4	Capture the Cloud	69.95	2016
5	Cloud-based Mobile Applications	69.95	2015
6	Coding Style for Maintenance	49.95	2017
7	Conceptual Programming	59.95	2015
8	Database in the Cloud	79.95	2014
9	DATABASES in Theory	129.95	2015
10	iOS Programming	79.95	2015
11	J++ in Mobile Apps	49.95	2015
12	JAVA First Steps	49.95	2015
13	Mastering the database environment	89.95	2015
14	Reengineering the Middle Tier	89.95	2016
15	Shining Through the Cloud: Sun Programming	109.95	2016
16	Starlight Applications	69.95	2016
17	The Golden Road to Platform independence	119.95	2016
18	Thoughts on Revitalizing Ruby	59.95	2016
19	Virtual Programming for Virtual Environments	79.95	2016
20	What You Always Wanted to Know About Dat...	49.95	2016

57.

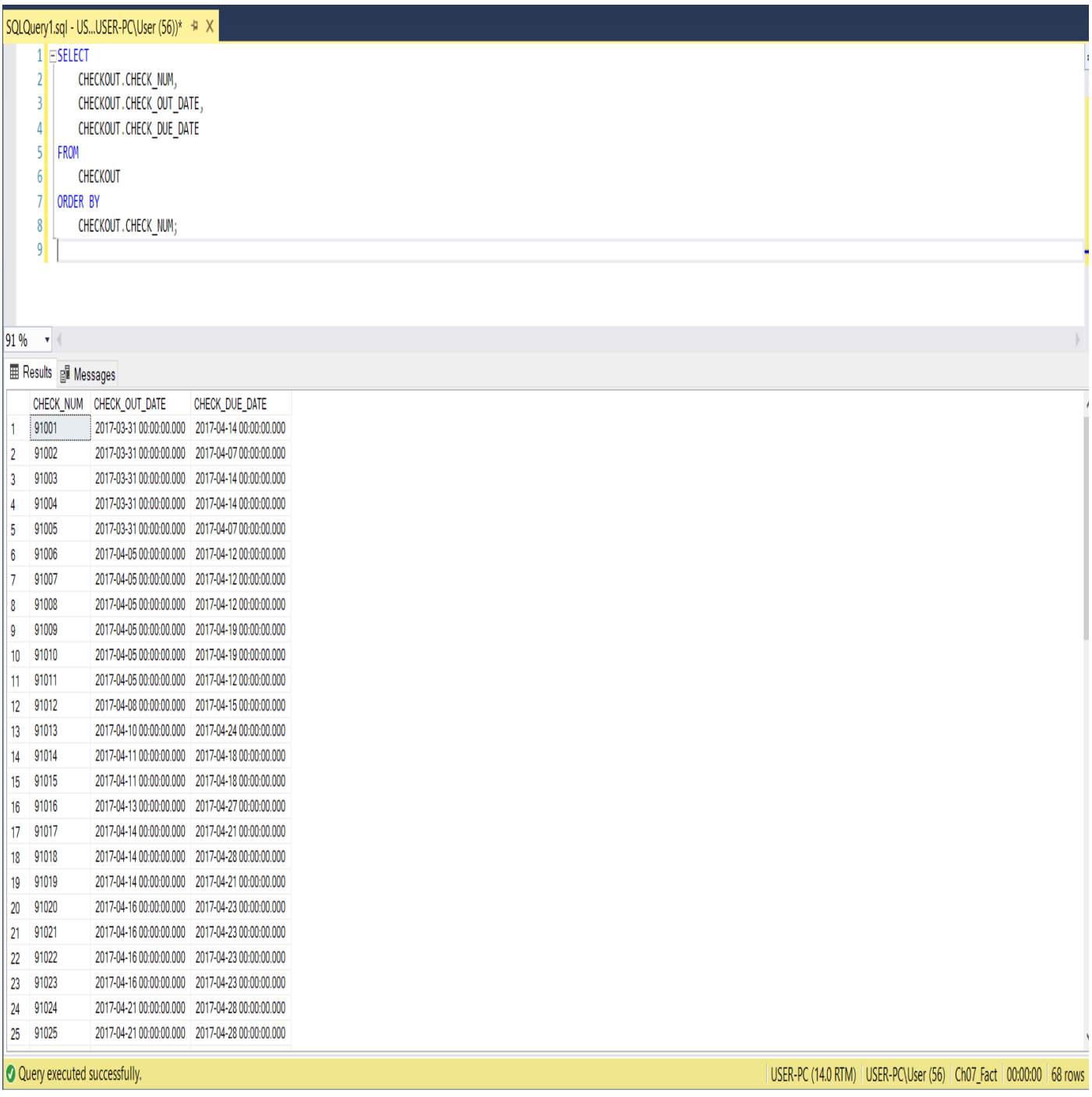
```
SELECT
        PATRON.PAT_FNAME,
        PATRON.PAT_LNAME
FROM
        PATRON
ORDER BY
        UPPER(PATRON.PAT_LNAME),
        UPPER(PATRON.PAT_FNAME);
```



	PAT_FNAME	PAT_LNAME
1	Vera	Alvarado
2	Holly	Anthony
3	Cedric	Baldwin
4	Cory	Barry
5	Nadine	Blair
6	Erika	Bowen
7	Gerald	Burke
8	Ollie	Cantrell
9	robert	carter
10	Keith	Cooley
11	Alicia	Dickson
12	Maureen	Downs
13	Thomas	Duran
14	Jewel	England
15	Wilfred	Fuller
16	Jerald	Gaines
17	Claire	Gomez
18	Homer	Goodman
19	Desiree	Harrington
20	Jose	Hays
21	Allen	Horne
22	Helena	Hughes
23	Elton	Irwin
24	Jan	Joyce
25	Zach	Kelly
26	Roberto	Kennedy
27	Marina	King
28	Mario	King

58.

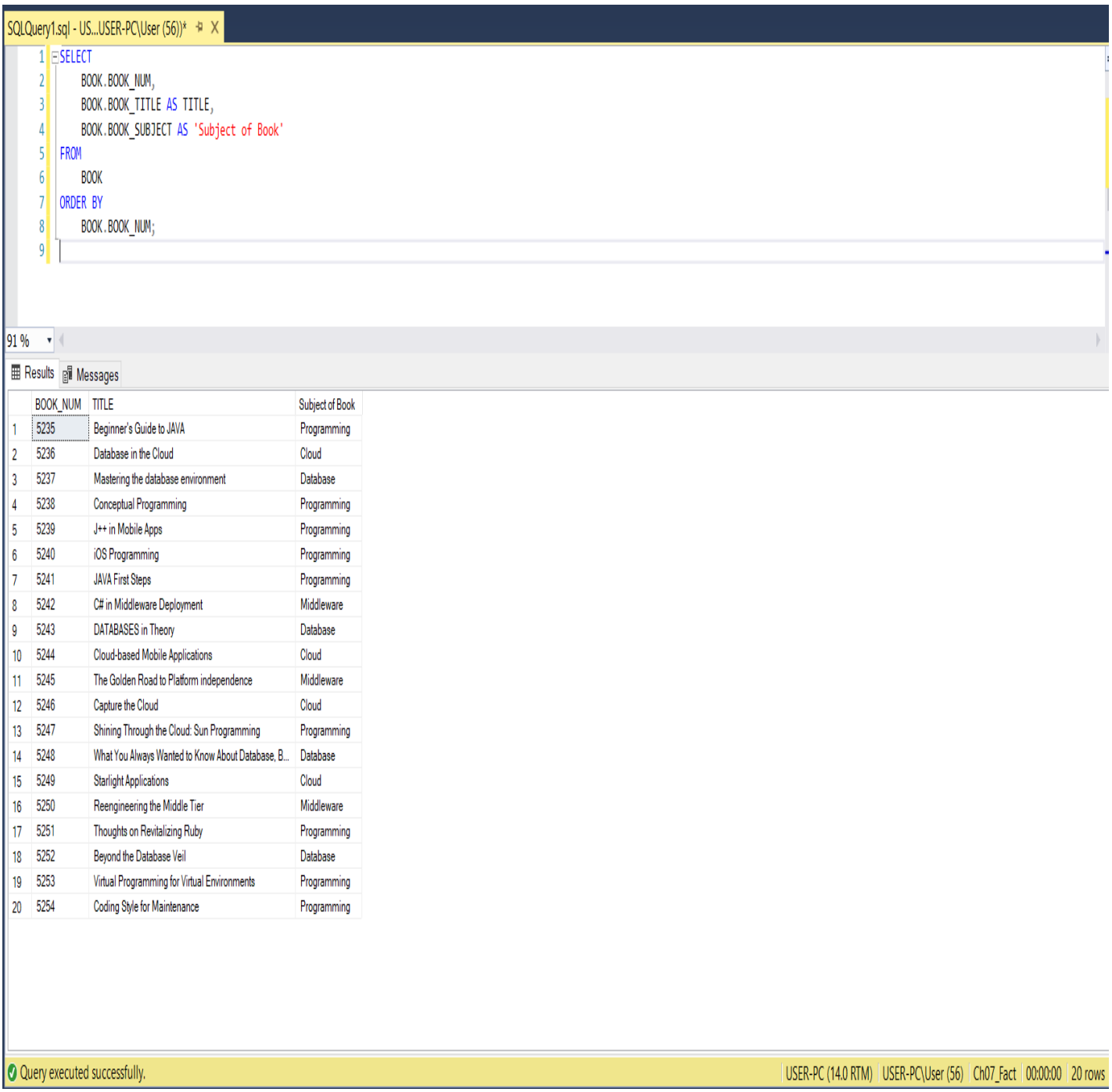
```
SELECT
        CHECKOUT.CHECK_NUM,
        CHECKOUT.CHECK_OUT_DATE,
        CHECKOUT.CHECK_DUE_DATE
FROM
        CHECKOUT
ORDER BY
        CHECKOUT.CHECK_NUM;
```



	CHECK_NUM	CHECK_OUT_DATE	CHECK_DUE_DATE
1	91001	2017-03-31 00:00:00.000	2017-04-14 00:00:00.000
2	91002	2017-03-31 00:00:00.000	2017-04-07 00:00:00.000
3	91003	2017-03-31 00:00:00.000	2017-04-14 00:00:00.000
4	91004	2017-03-31 00:00:00.000	2017-04-14 00:00:00.000
5	91005	2017-03-31 00:00:00.000	2017-04-07 00:00:00.000
6	91006	2017-04-05 00:00:00.000	2017-04-12 00:00:00.000
7	91007	2017-04-05 00:00:00.000	2017-04-12 00:00:00.000
8	91008	2017-04-05 00:00:00.000	2017-04-12 00:00:00.000
9	91009	2017-04-05 00:00:00.000	2017-04-19 00:00:00.000
10	91010	2017-04-05 00:00:00.000	2017-04-19 00:00:00.000
11	91011	2017-04-05 00:00:00.000	2017-04-12 00:00:00.000
12	91012	2017-04-08 00:00:00.000	2017-04-15 00:00:00.000
13	91013	2017-04-10 00:00:00.000	2017-04-24 00:00:00.000
14	91014	2017-04-11 00:00:00.000	2017-04-18 00:00:00.000
15	91015	2017-04-11 00:00:00.000	2017-04-18 00:00:00.000
16	91016	2017-04-13 00:00:00.000	2017-04-27 00:00:00.000
17	91017	2017-04-14 00:00:00.000	2017-04-21 00:00:00.000
18	91018	2017-04-14 00:00:00.000	2017-04-28 00:00:00.000
19	91019	2017-04-14 00:00:00.000	2017-04-21 00:00:00.000
20	91020	2017-04-16 00:00:00.000	2017-04-23 00:00:00.000
21	91021	2017-04-16 00:00:00.000	2017-04-23 00:00:00.000
22	91022	2017-04-16 00:00:00.000	2017-04-23 00:00:00.000
23	91023	2017-04-16 00:00:00.000	2017-04-23 00:00:00.000
24	91024	2017-04-21 00:00:00.000	2017-04-28 00:00:00.000
25	91025	2017-04-21 00:00:00.000	2017-04-28 00:00:00.000

59.

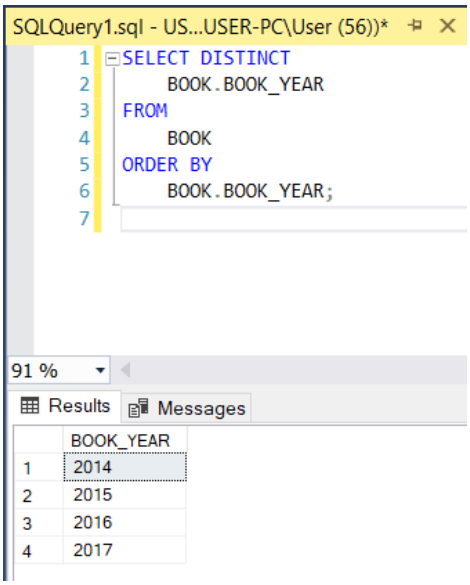
```
SELECT
        BOOK.BOOK_NUM,
        BOOK.BOOK_TITLE AS TITLE,
        BOOK.BOOK_SUBJECT AS 'Subject of Book'
FROM
        BOOK
ORDER BY
        BOOK.BOOK_NUM;
```



	BOOK_NUM	TITLE	Subject of Book
1	5235	Beginner's Guide to JAVA	Programming
2	5236	Database in the Cloud	Cloud
3	5237	Mastering the database environment	Database
4	5238	Conceptual Programming	Programming
5	5239	J++ in Mobile Apps	Programming
6	5240	iOS Programming	Programming
7	5241	JAVA First Steps	Programming
8	5242	C# in Middleware Deployment	Middleware
9	5243	DATABASES in Theory	Database
10	5244	Cloud-based Mobile Applications	Cloud
11	5245	The Golden Road to Platform independence	Middleware
12	5246	Capture the Cloud	Cloud
13	5247	Shining Through the Cloud: Sun Programming	Programming
14	5248	What You Always Wanted to Know About Database, B...	Database
15	5249	Starlight Applications	Cloud
16	5250	Reengineering the Middle Tier	Middleware
17	5251	Thoughts on Revitalizing Ruby	Programming
18	5252	Beyond the Database Veil	Database
19	5253	Virtual Programming for Virtual Environments	Programming
20	5254	Coding Style for Maintenance	Programming

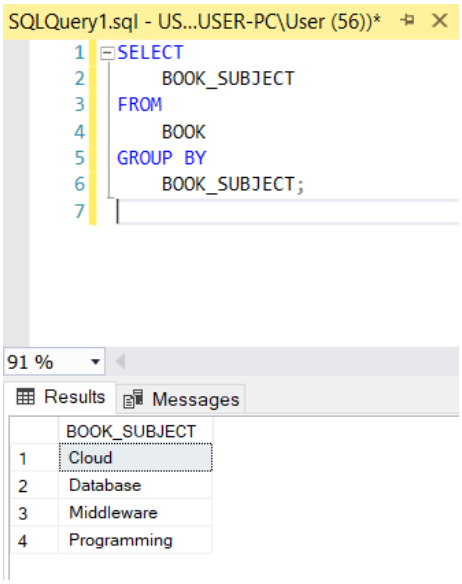
60.

```
SELECT DISTINCT
	BOOK.BOOK_YEAR
FROM
	BOOK
ORDER BY
	BOOK.BOOK_YEAR;
```



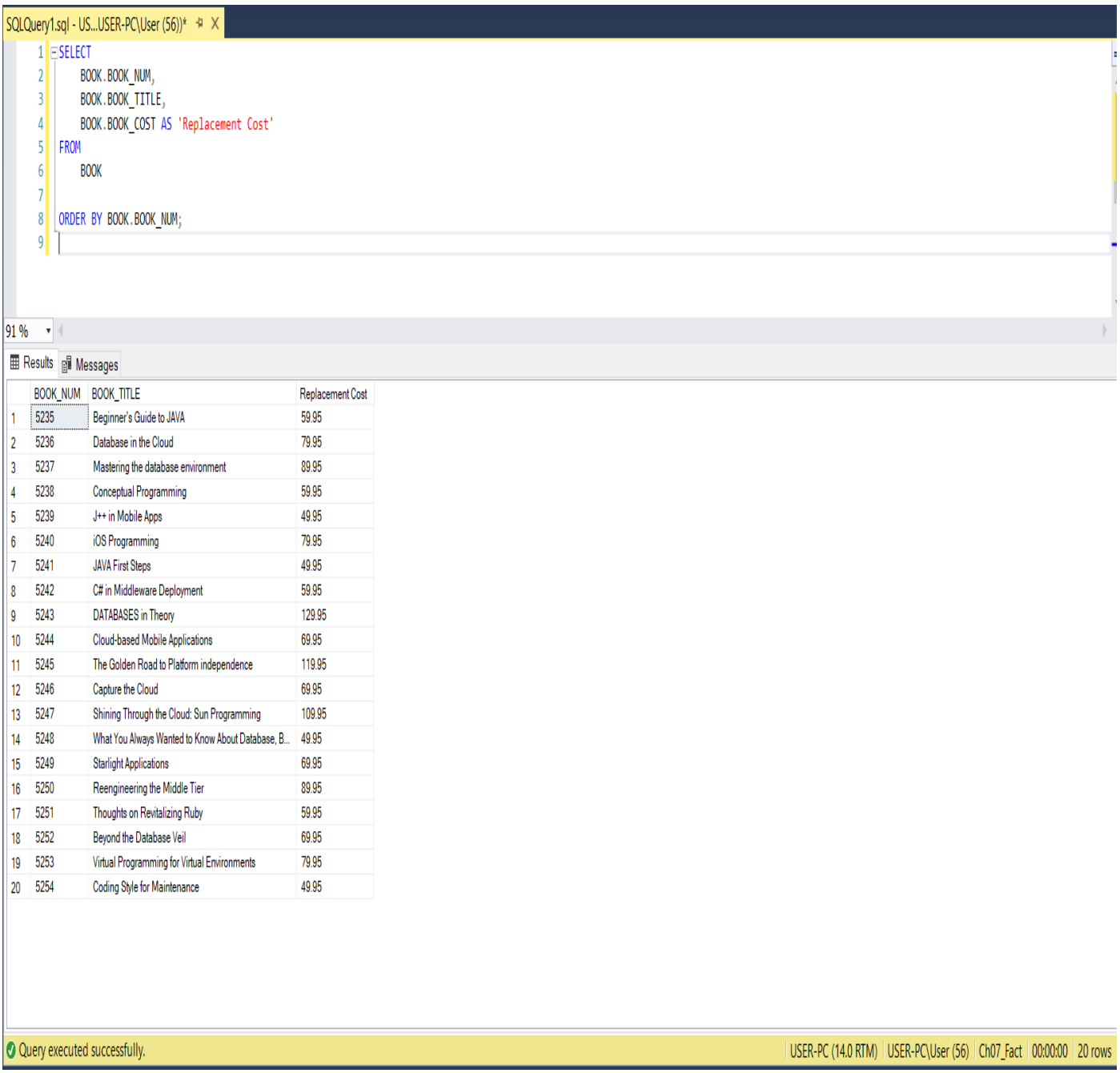
61.

```
SELECT
	BOOK_SUBJECT
FROM
	BOOK
GROUP BY
	BOOK_SUBJECT;
```



62.

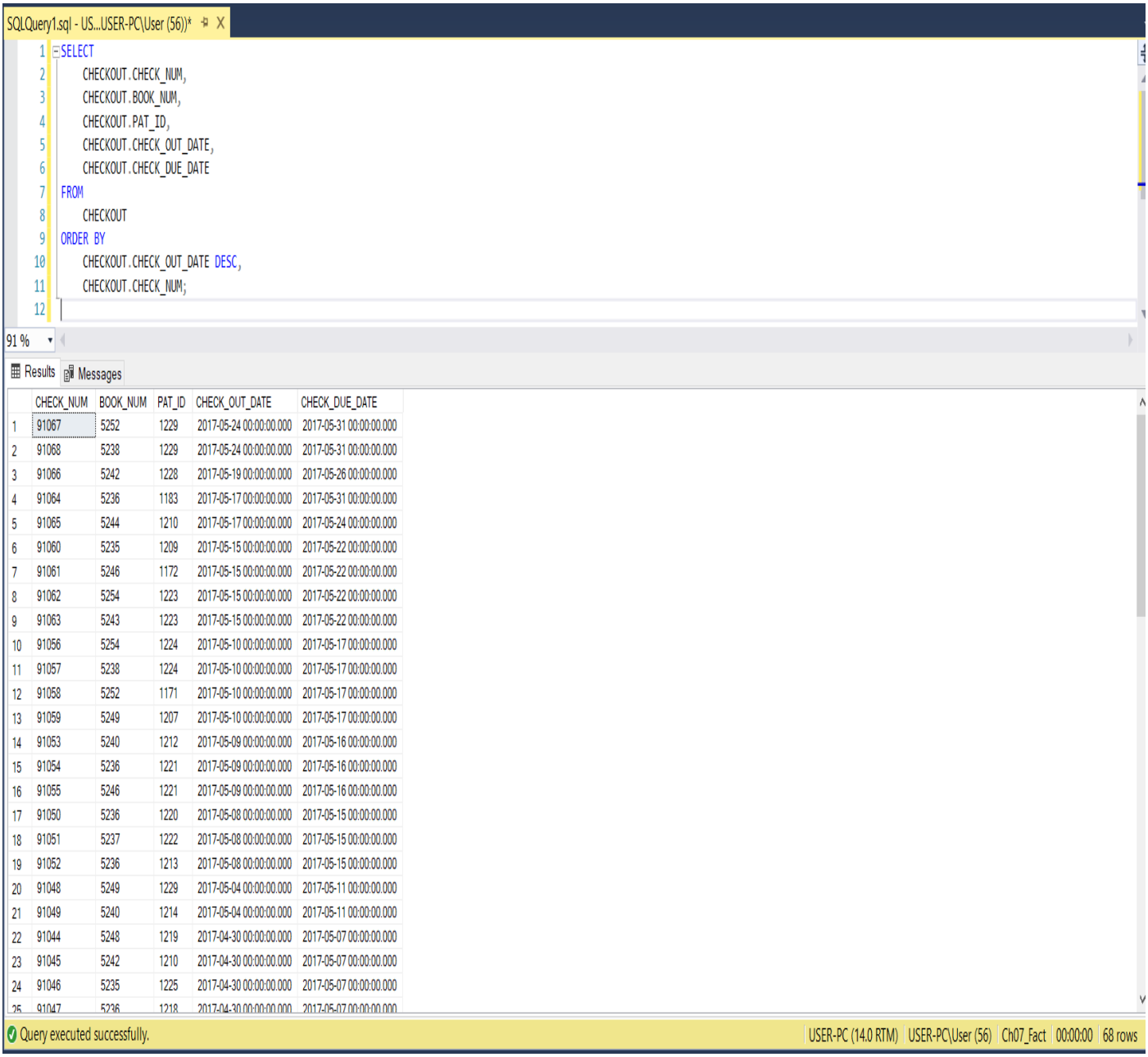
```
SELECT
        BOOK.BOOK_NUM,
        BOOK.BOOK_TITLE,
        BOOK.BOOK_COST AS 'Replacement Cost'
FROM
        BOOK

ORDER BY BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	Replacement Cost
1	5235	Beginner's Guide to JAVA	59.95
2	5236	Database in the Cloud	79.95
3	5237	Mastering the database environment	89.95
4	5238	Conceptual Programming	59.95
5	5239	J++ in Mobile Apps	49.95
6	5240	iOS Programming	79.95
7	5241	JAVA First Steps	49.95
8	5242	C# in Middleware Deployment	59.95
9	5243	DATABASES in Theory	129.95
10	5244	Cloud-based Mobile Applications	69.95
11	5245	The Golden Road to Platform independence	119.95
12	5246	Capture the Cloud	69.95
13	5247	Shining Through the Cloud: Sun Programming	109.95
14	5248	What You Always Wanted to Know About Database, B...	49.95
15	5249	Starlight Applications	69.95
16	5250	Reengineering the Middle Tier	89.95
17	5251	Thoughts on Revitalizing Ruby	59.95
18	5252	Beyond the Database Veil	69.95
19	5253	Virtual Programming for Virtual Environments	79.95
20	5254	Coding Style for Maintenance	49.95

63.

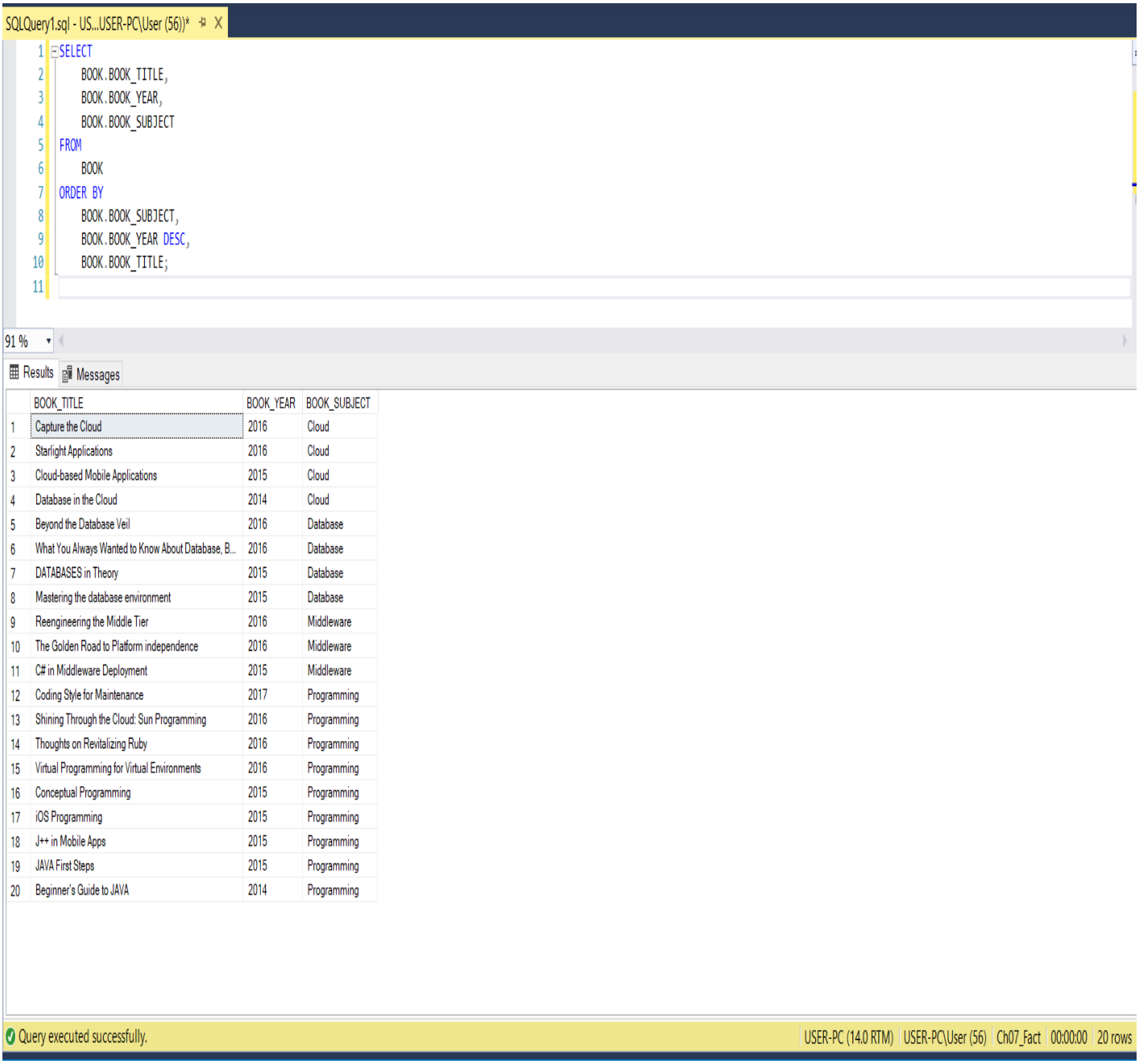
```
SELECT
        CHECKOUT.CHECK_NUM,
        CHECKOUT.BOOK_NUM,
        CHECKOUT.PAT_ID,
        CHECKOUT.CHECK_OUT_DATE,
        CHECKOUT.CHECK_DUE_DATE
FROM
        CHECKOUT
ORDER BY
        CHECKOUT.CHECK_OUT_DATE DESC,
        CHECKOUT.CHECK_NUM;
```



	CHECK_NUM	BOOK_NUM	PAT_ID	CHECK_OUT_DATE	CHECK_DUE_DATE
1	91067	5252	1229	2017-05-24 00:00:00.000	2017-05-31 00:00:00.000
2	91068	5238	1229	2017-05-24 00:00:00.000	2017-05-31 00:00:00.000
3	91066	5242	1228	2017-05-19 00:00:00.000	2017-05-26 00:00:00.000
4	91064	5236	1183	2017-05-17 00:00:00.000	2017-05-31 00:00:00.000
5	91065	5244	1210	2017-05-17 00:00:00.000	2017-05-24 00:00:00.000
6	91060	5235	1209	2017-05-15 00:00:00.000	2017-05-22 00:00:00.000
7	91061	5246	1172	2017-05-15 00:00:00.000	2017-05-22 00:00:00.000
8	91062	5254	1223	2017-05-15 00:00:00.000	2017-05-22 00:00:00.000
9	91063	5243	1223	2017-05-15 00:00:00.000	2017-05-22 00:00:00.000
10	91056	5254	1224	2017-05-10 00:00:00.000	2017-05-17 00:00:00.000
11	91057	5238	1224	2017-05-10 00:00:00.000	2017-05-17 00:00:00.000
12	91058	5252	1171	2017-05-10 00:00:00.000	2017-05-17 00:00:00.000
13	91059	5249	1207	2017-05-10 00:00:00.000	2017-05-17 00:00:00.000
14	91053	5240	1212	2017-05-09 00:00:00.000	2017-05-16 00:00:00.000
15	91054	5236	1221	2017-05-09 00:00:00.000	2017-05-16 00:00:00.000
16	91055	5246	1221	2017-05-09 00:00:00.000	2017-05-16 00:00:00.000
17	91050	5236	1220	2017-05-08 00:00:00.000	2017-05-15 00:00:00.000
18	91051	5237	1222	2017-05-08 00:00:00.000	2017-05-15 00:00:00.000
19	91052	5236	1213	2017-05-08 00:00:00.000	2017-05-15 00:00:00.000
20	91048	5249	1229	2017-05-04 00:00:00.000	2017-05-11 00:00:00.000
21	91049	5240	1214	2017-05-04 00:00:00.000	2017-05-11 00:00:00.000
22	91044	5248	1219	2017-04-30 00:00:00.000	2017-05-07 00:00:00.000
23	91045	5242	1210	2017-04-30 00:00:00.000	2017-05-07 00:00:00.000
24	91046	5235	1225	2017-04-30 00:00:00.000	2017-05-07 00:00:00.000
25	91047	5236	1218	2017-04-30 00:00:00.000	2017-05-07 00:00:00.000

64.

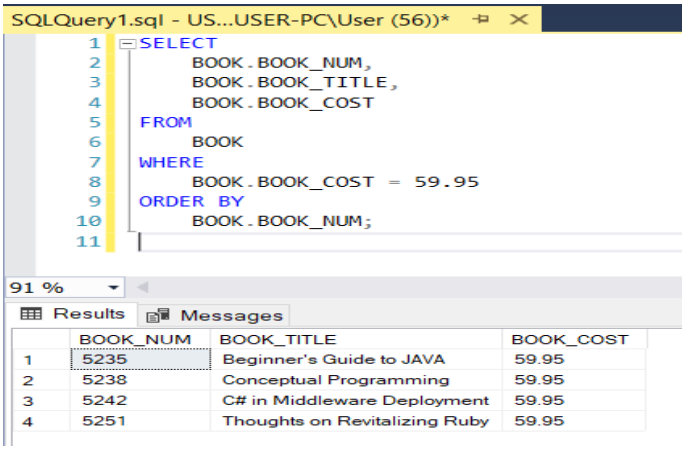
```
SELECT
        BOOK.BOOK_TITLE,
        BOOK.BOOK_YEAR,
        BOOK.BOOK_SUBJECT
FROM
        BOOK
ORDER BY
        BOOK.BOOK_SUBJECT,
        BOOK.BOOK_YEAR DESC,
        BOOK.BOOK_TITLE;
```



	BOOK_TITLE	BOOK_YEAR	BOOK_SUBJECT
1	Capture the Cloud	2016	Cloud
2	Starlight Applications	2016	Cloud
3	Cloud-based Mobile Applications	2015	Cloud
4	Database in the Cloud	2014	Cloud
5	Beyond the Database Veil	2016	Database
6	What You Always Wanted to Know About Database, B...	2016	Database
7	DATABASES in Theory	2015	Database
8	Mastering the database environment	2015	Database
9	Reengineering the Middle Tier	2016	Middleware
10	The Golden Road to Platform independence	2016	Middleware
11	C# in Middleware Deployment	2015	Middleware
12	Coding Style for Maintenance	2017	Programming
13	Shining Through the Cloud: Sun Programming	2016	Programming
14	Thoughts on Revitalizing Ruby	2016	Programming
15	Virtual Programming for Virtual Environments	2016	Programming
16	Conceptual Programming	2015	Programming
17	iOS Programming	2015	Programming
18	J++ in Mobile Apps	2015	Programming
19	JAVA First Steps	2015	Programming
20	Beginner's Guide to JAVA	2014	Programming

65.

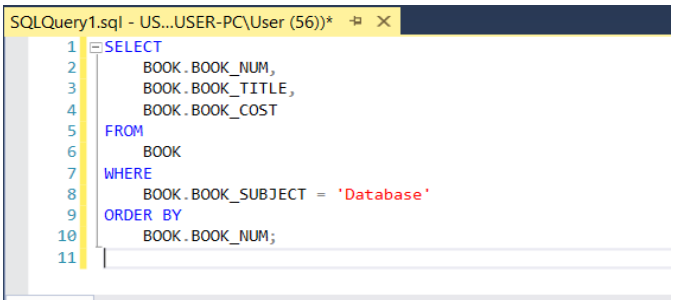
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_COST
FROM
	BOOK
WHERE
	BOOK.BOOK_COST = 59.95
ORDER BY
	BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	BOOK_COST
1	5235	Beginner's Guide to JAVA	59.95
2	5238	Conceptual Programming	59.95
3	5242	C# in Middleware Deployment	59.95
4	5251	Thoughts on Revitalizing Ruby	59.95

66.

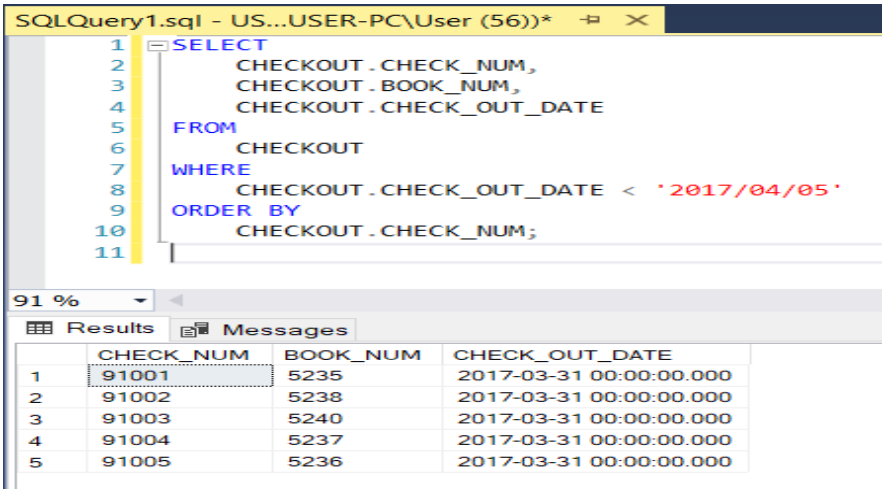
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_COST
FROM
	BOOK
WHERE
	BOOK.BOOK_SUBJECT = 'Database'
ORDER BY
	BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	BOOK_COST
1	5237	Mastering the database environment	89.95
2	5243	DATABASES in Theory	129.95
3	5248	What You Always Wanted to Know About Database, B...	49.95
4	5252	Beyond the Database Veil	69.95

67.

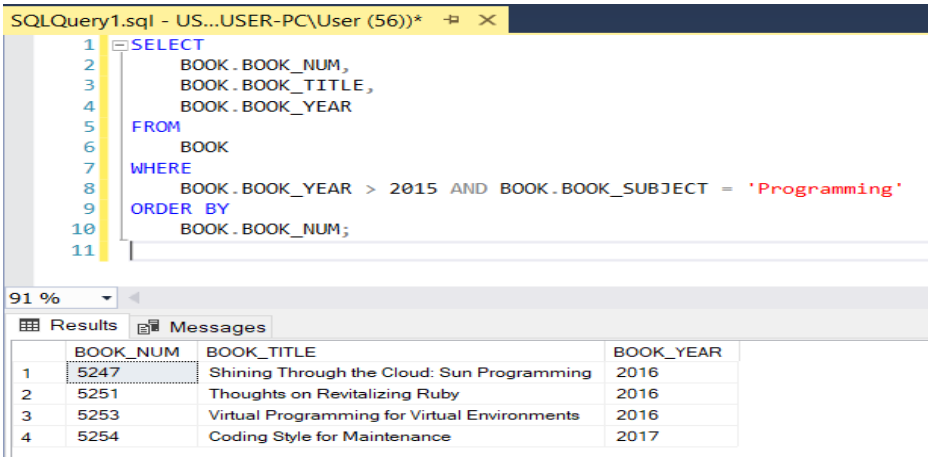
```
SELECT
	CHECKOUT.CHECK_NUM,
	CHECKOUT.BOOK_NUM,
	CHECKOUT.CHECK_OUT_DATE
FROM
	CHECKOUT
WHERE
	CHECKOUT.CHECK_OUT_DATE < '2017/04/05'
ORDER BY
	CHECKOUT.CHECK_NUM;
```



	CHECK_NUM	BOOK_NUM	CHECK_OUT_DATE
1	91001	5235	2017-03-31 00:00:00.000
2	91002	5238	2017-03-31 00:00:00.000
3	91003	5240	2017-03-31 00:00:00.000
4	91004	5237	2017-03-31 00:00:00.000
5	91005	5236	2017-03-31 00:00:00.000

68.

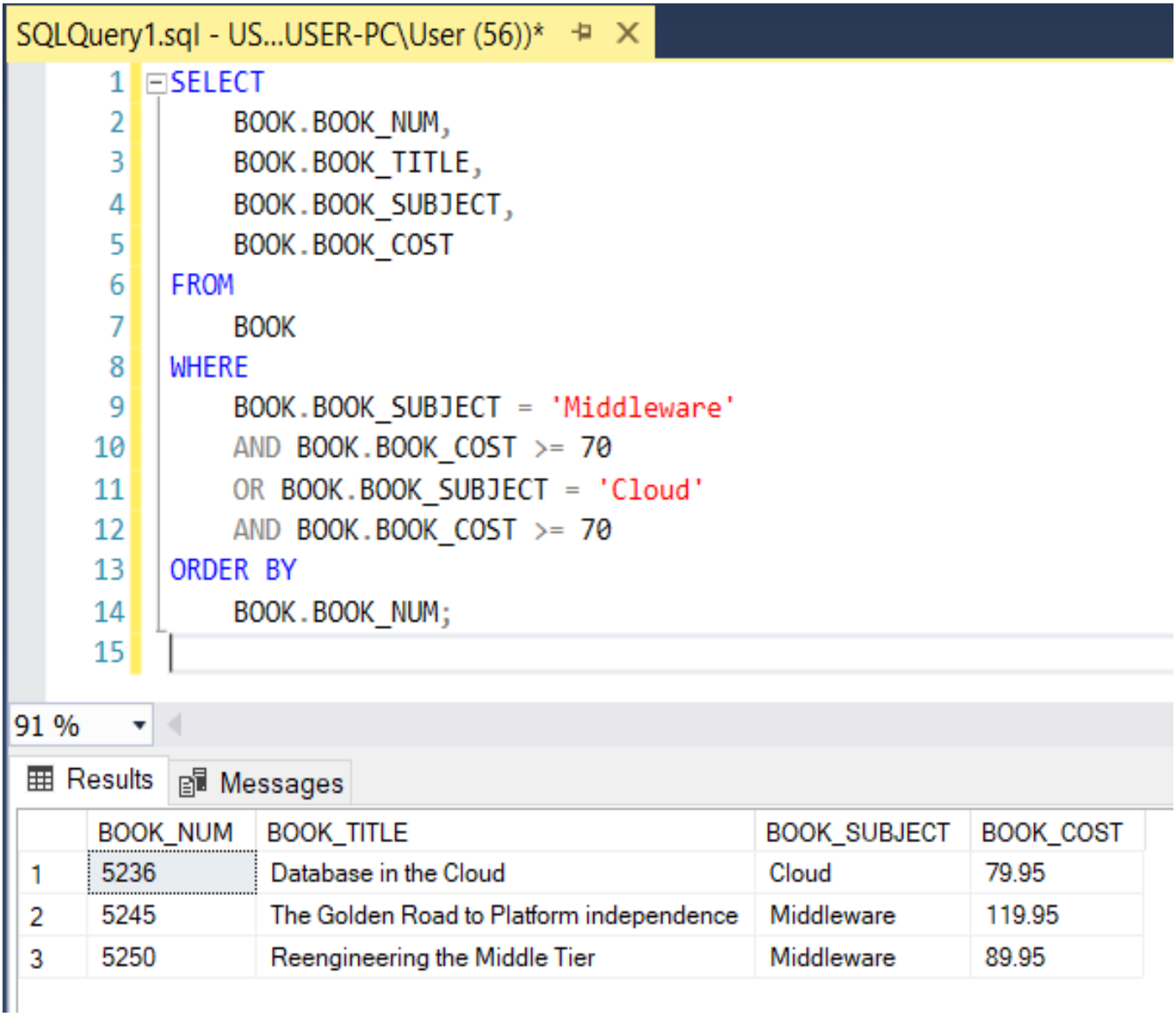
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_YEAR
FROM
	BOOK
WHERE
	BOOK.BOOK_YEAR > 2015 AND BOOK.BOOK_SUBJECT = 'Programming'
ORDER BY
	BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	BOOK_YEAR
1	5247	Shining Through the Cloud: Sun Programming	2016
2	5251	Thoughts on Revitalizing Ruby	2016
3	5253	Virtual Programming for Virtual Environments	2016
4	5254	Coding Style for Maintenance	2017

69.

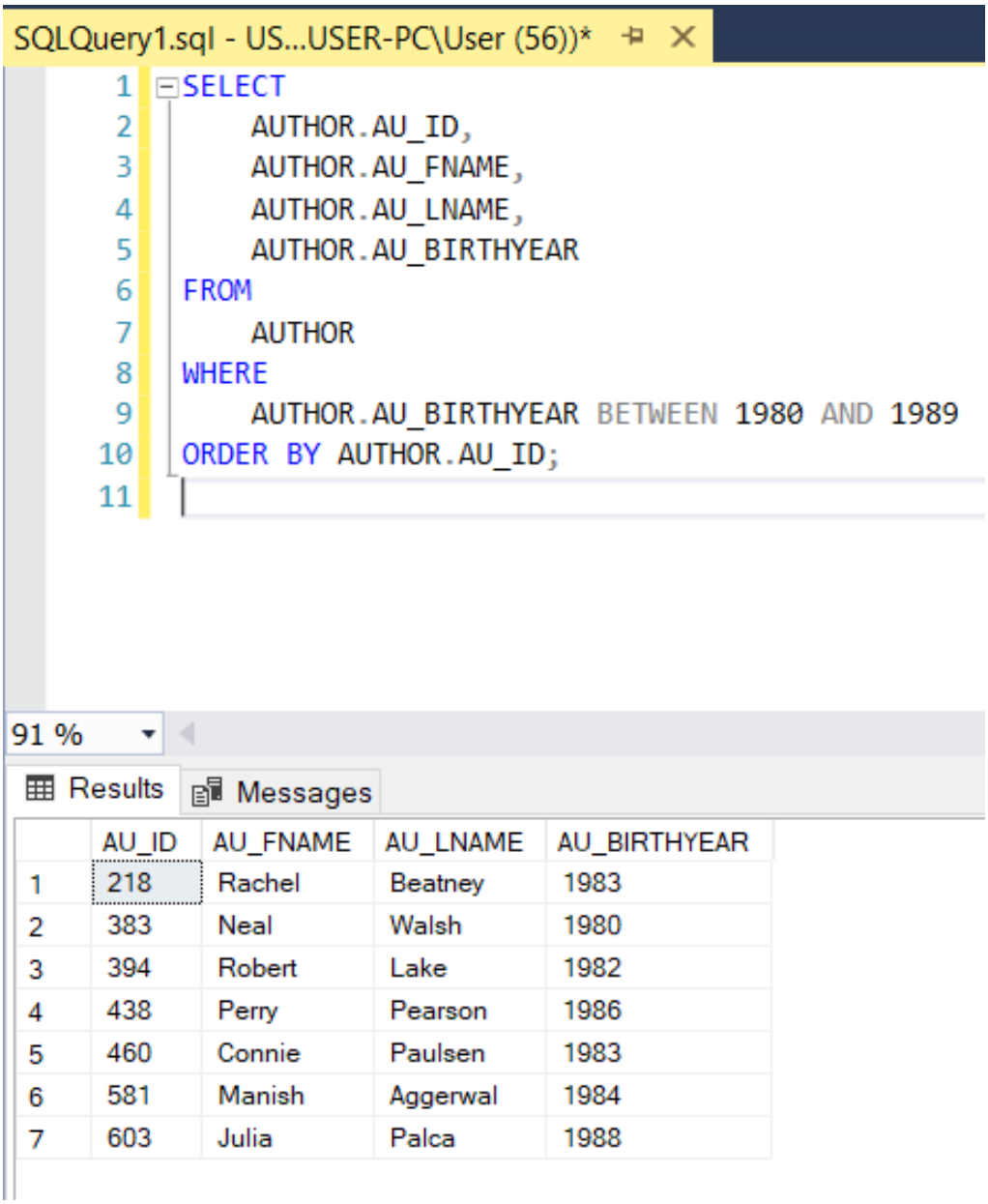
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_SUBJECT,
	BOOK.BOOK_COST
FROM
	BOOK
WHERE
	BOOK.BOOK_SUBJECT = 'Middleware'
	AND BOOK.BOOK_COST >= 70
	OR BOOK.BOOK_SUBJECT = 'Cloud'
	AND BOOK.BOOK_COST >= 70
ORDER BY
	BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT	BOOK_COST
1	5236	Database in the Cloud	Cloud	79.95
2	5245	The Golden Road to Platform independence	Middleware	119.95
3	5250	Reengineering the Middle Tier	Middleware	89.95

70.

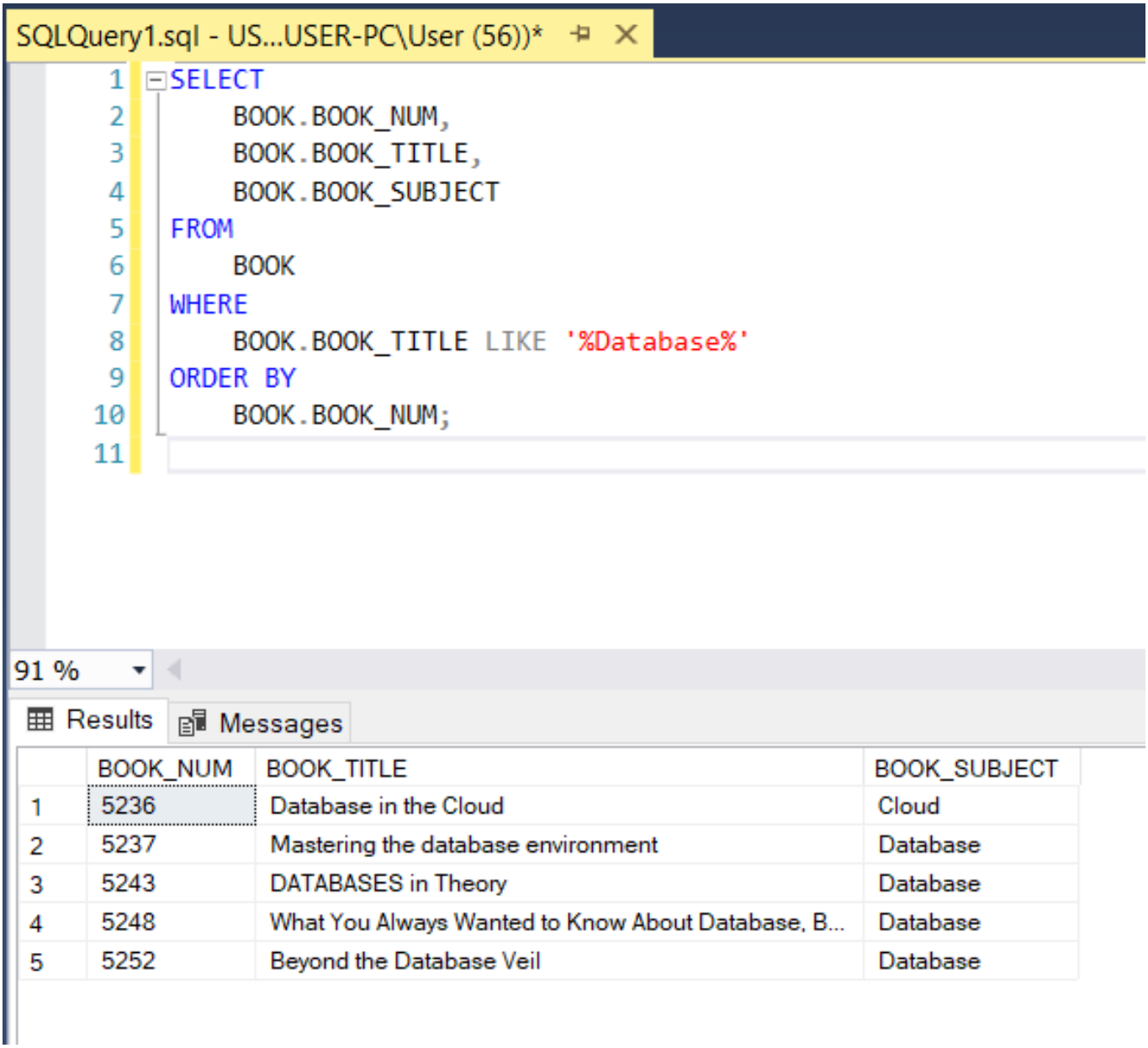
```
SELECT
	AUTHOR.AU_ID,
	AUTHOR.AU_FNAME,
	AUTHOR.AU_LNAME,
	AUTHOR.AU_BIRTHYEAR
FROM
	AUTHOR
WHERE
	AUTHOR.AU_BIRTHYEAR BETWEEN 1980 AND 1989
ORDER BY AUTHOR.AU_ID;
```



	AU_ID	AU_FNAME	AU_LNAME	AU_BIRTHYEAR
1	218	Rachel	Beatney	1983
2	383	Neal	Walsh	1980
3	394	Robert	Lake	1982
4	438	Perry	Pearson	1986
5	460	Connie	Paulsen	1983
6	581	Manish	Aggerwal	1984
7	603	Julia	Palca	1988

71.

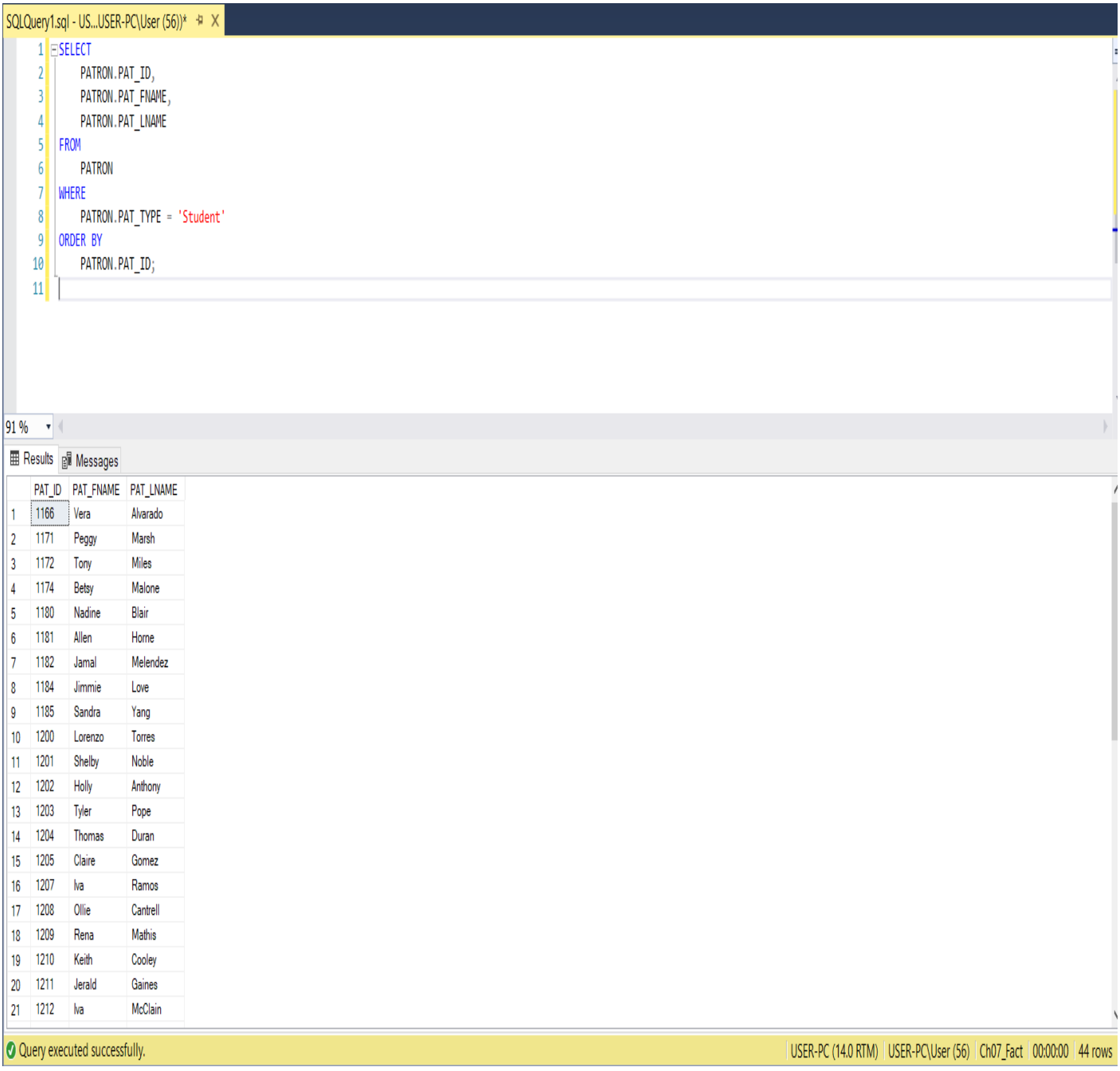
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_SUBJECT
FROM
	BOOK
WHERE
	BOOK.BOOK_TITLE LIKE '%Database%'
ORDER BY
	BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT
1	5236	Database in the Cloud	Cloud
2	5237	Mastering the database environment	Database
3	5243	DATABASES in Theory	Database
4	5248	What You Always Wanted to Know About Database, B...	Database
5	5252	Beyond the Database Veil	Database

72.

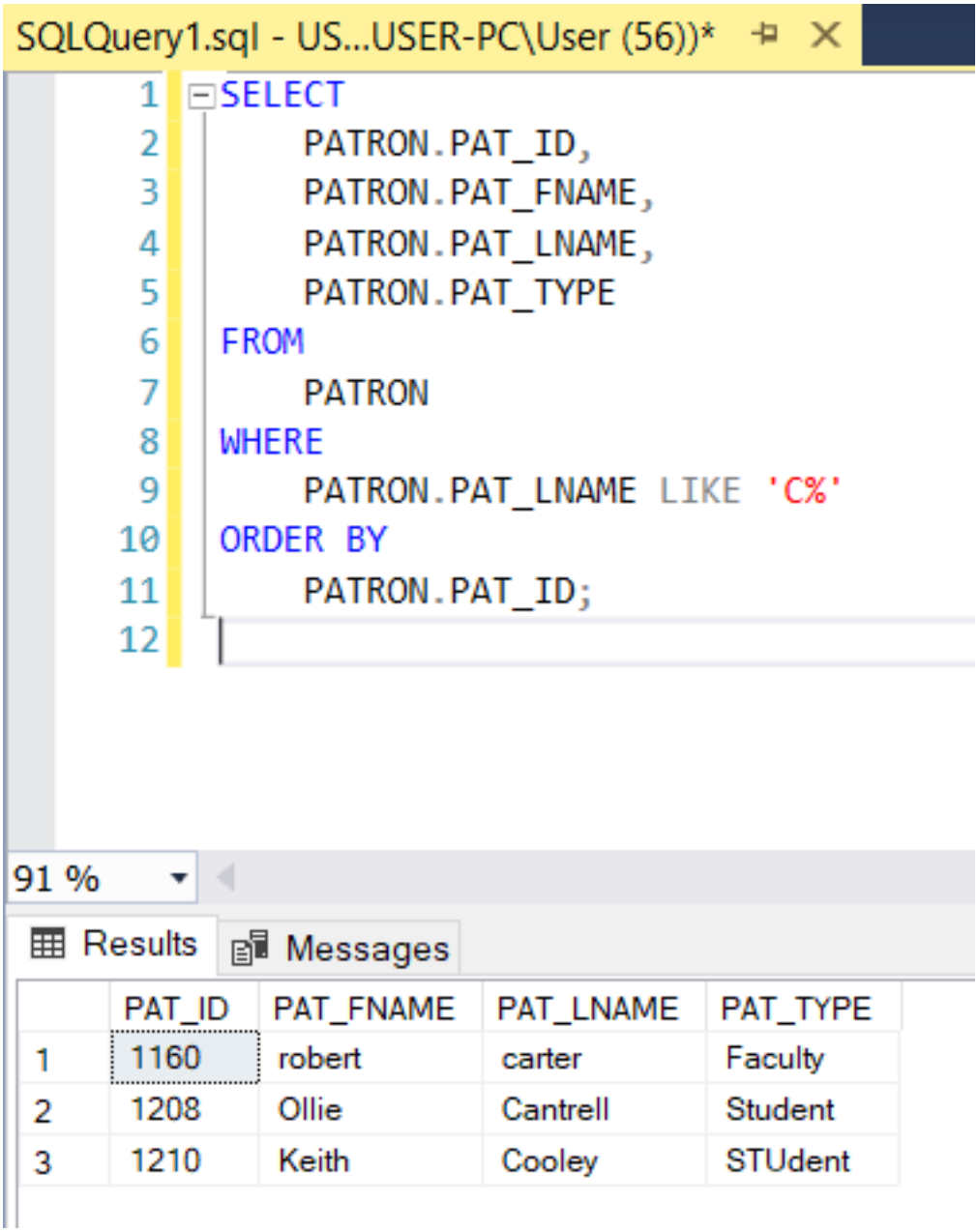
```
SELECT
        PATRON.PAT_ID,
        PATRON.PAT_FNAME,
        PATRON.PAT_LNAME
FROM
        PATRON
WHERE
        PATRON.PAT_TYPE = 'Student'
ORDER BY
        PATRON.PAT_ID;
```



	PAT_ID	PAT_FNAME	PAT_LNAME
1	1166	Vera	Alvarado
2	1171	Peggy	Marsh
3	1172	Tony	Miles
4	1174	Betsy	Malone
5	1180	Nadine	Blair
6	1181	Allen	Horne
7	1182	Jamal	Melendez
8	1184	Jimmie	Love
9	1185	Sandra	Yang
10	1200	Lorenzo	Torres
11	1201	Shelby	Noble
12	1202	Holly	Anthony
13	1203	Tyler	Pope
14	1204	Thomas	Duran
15	1205	Claire	Gomez
16	1207	Iva	Ramos
17	1208	Ollie	Cantrell
18	1209	Rena	Mathis
19	1210	Keith	Cooley
20	1211	Jerald	Gaines
21	1212	Iva	McClain

73.

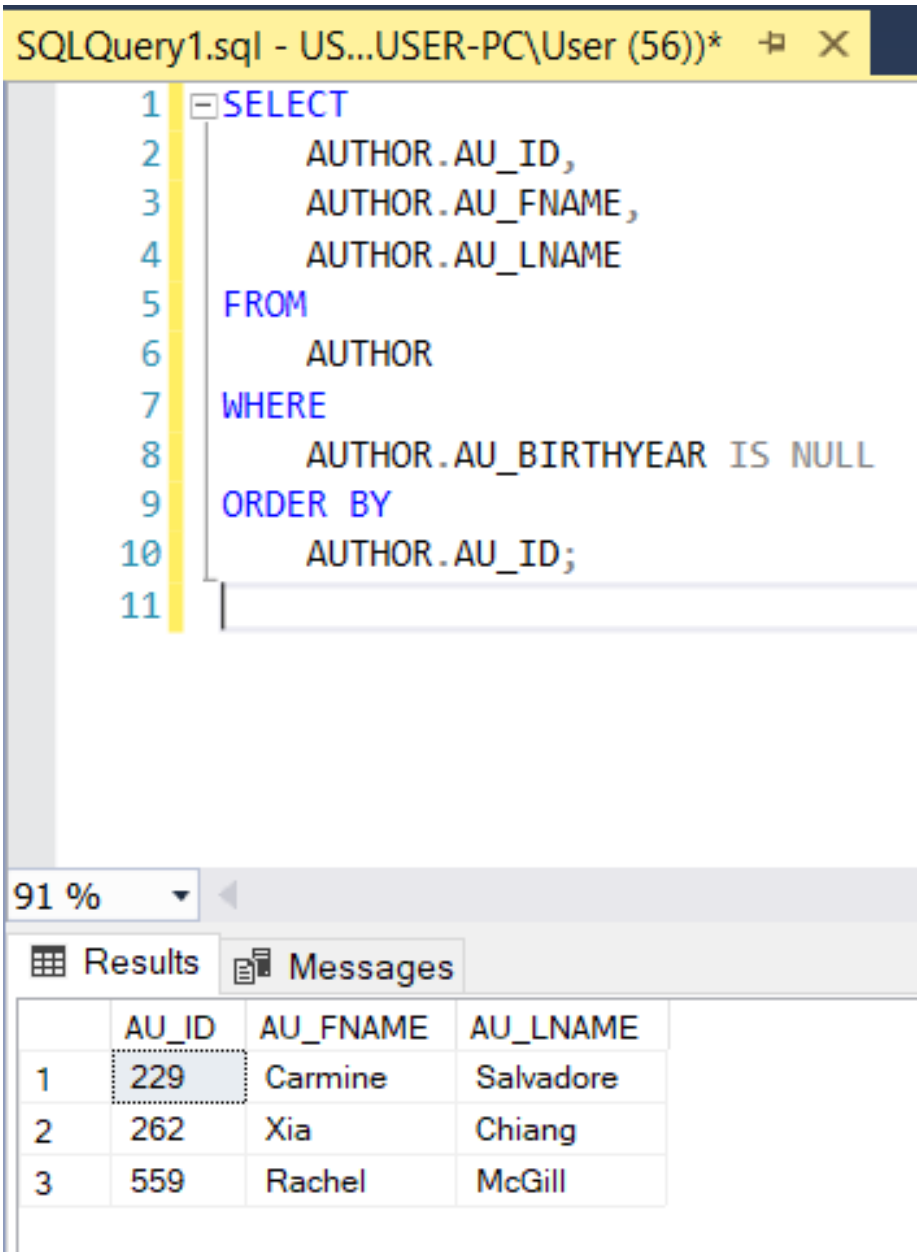
```
SELECT
	PATRON.PAT_ID,
	PATRON.PAT_FNAME,
	PATRON.PAT_LNAME,
	PATRON.PAT_TYPE
FROM
	PATRON
WHERE
	PATRON.PAT_LNAME LIKE 'C%'
ORDER BY
	PATRON.PAT_ID;
```



	PAT_ID	PAT_FNAME	PAT_LNAME	PAT_TYPE
1	1160	robert	carter	Faculty
2	1208	Ollie	Cantrell	Student
3	1210	Keith	Cooley	STUdent

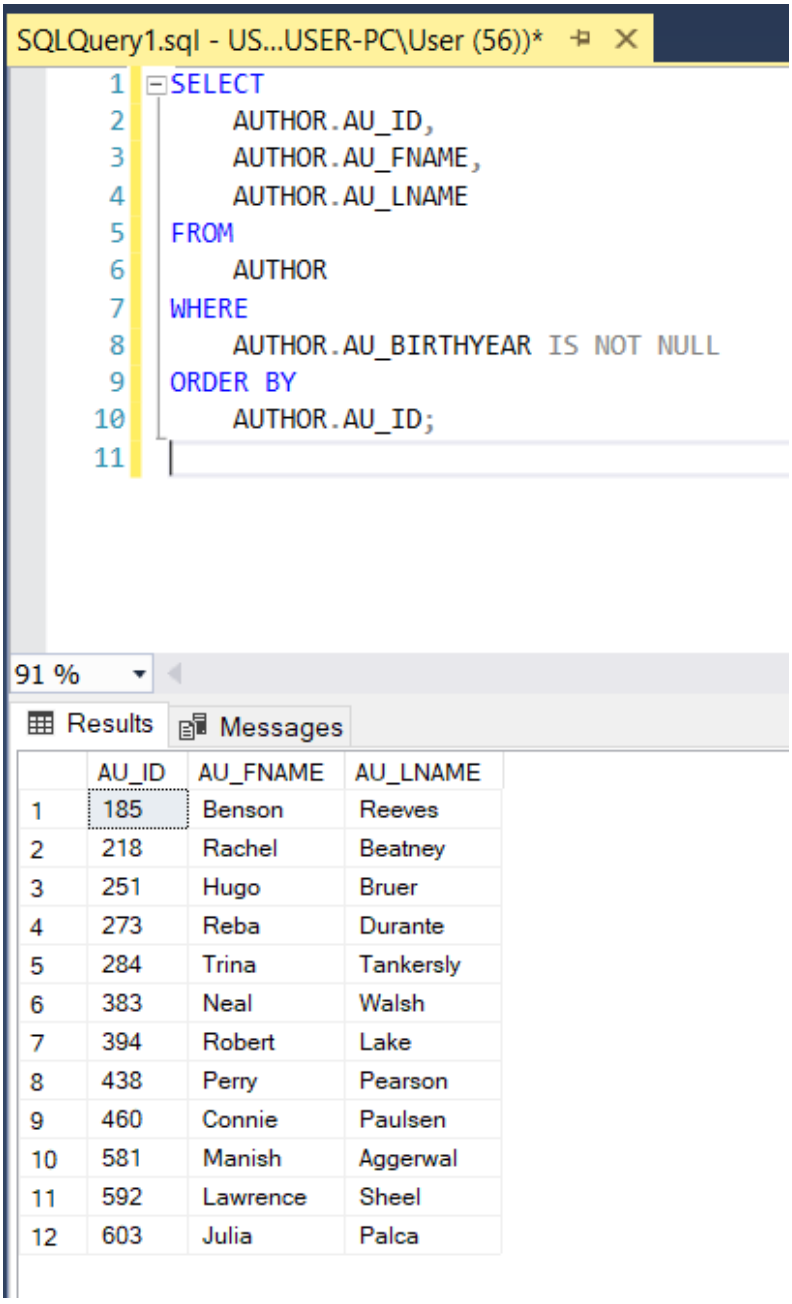
74.

```
SELECT
	AUTHOR.AU_ID,
	AUTHOR.AU_FNAME,
	AUTHOR.AU_LNAME
FROM
	AUTHOR
WHERE
	AUTHOR.AU_BIRTHYEAR IS NULL
ORDER BY
	AUTHOR.AU_ID;
```



75.

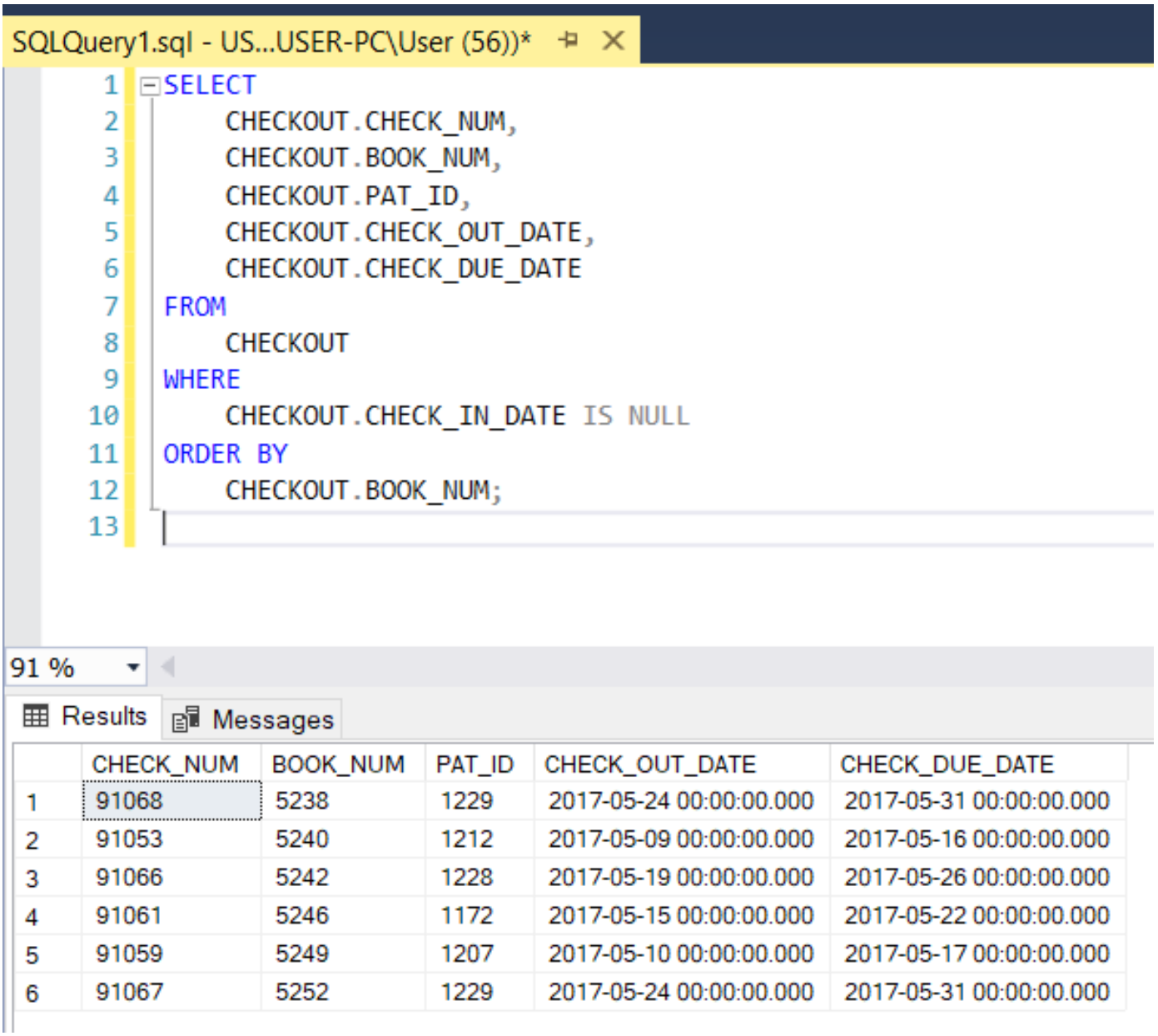
```
SELECT
	AUTHOR.AU_ID,
	AUTHOR.AU_FNAME,
	AUTHOR.AU_LNAME
FROM
	AUTHOR
WHERE
	AUTHOR.AU_BIRTHYEAR IS NOT NULL
ORDER BY
	AUTHOR.AU_ID;
```



	AU_ID	AU_FNAME	AU_LNAME
1	185	Benson	Reeves
2	218	Rachel	Beatney
3	251	Hugo	Bruer
4	273	Reba	Durante
5	284	Trina	Tankersly
6	383	Neal	Walsh
7	394	Robert	Lake
8	438	Perry	Pearson
9	460	Connie	Paulsen
10	581	Manish	Aggerwal
11	592	Lawrence	Sheel
12	603	Julia	Palca

76.

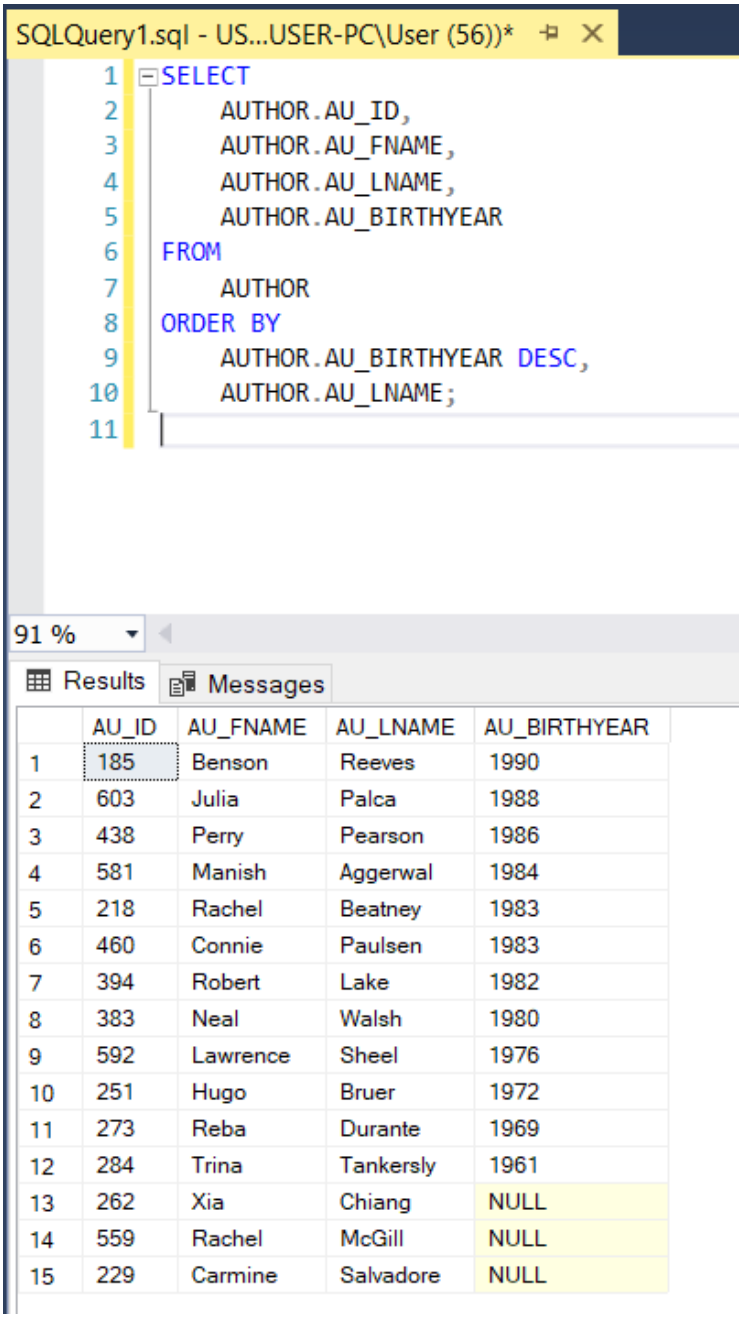
```
SELECT
	CHECKOUT.CHECK_NUM,
	CHECKOUT.BOOK_NUM,
	CHECKOUT.PAT_ID,
	CHECKOUT.CHECK_OUT_DATE,
	CHECKOUT.CHECK_DUE_DATE
FROM
	CHECKOUT
WHERE
	CHECKOUT.CHECK_IN_DATE IS NULL
ORDER BY
	CHECKOUT.BOOK_NUM;
```



	CHECK_NUM	BOOK_NUM	PAT_ID	CHECK_OUT_DATE	CHECK_DUE_DATE
1	91068	5238	1229	2017-05-24 00:00:00.000	2017-05-31 00:00:00.000
2	91053	5240	1212	2017-05-09 00:00:00.000	2017-05-16 00:00:00.000
3	91066	5242	1228	2017-05-19 00:00:00.000	2017-05-26 00:00:00.000
4	91061	5246	1172	2017-05-15 00:00:00.000	2017-05-22 00:00:00.000
5	91059	5249	1207	2017-05-10 00:00:00.000	2017-05-17 00:00:00.000
6	91067	5252	1229	2017-05-24 00:00:00.000	2017-05-31 00:00:00.000

77.

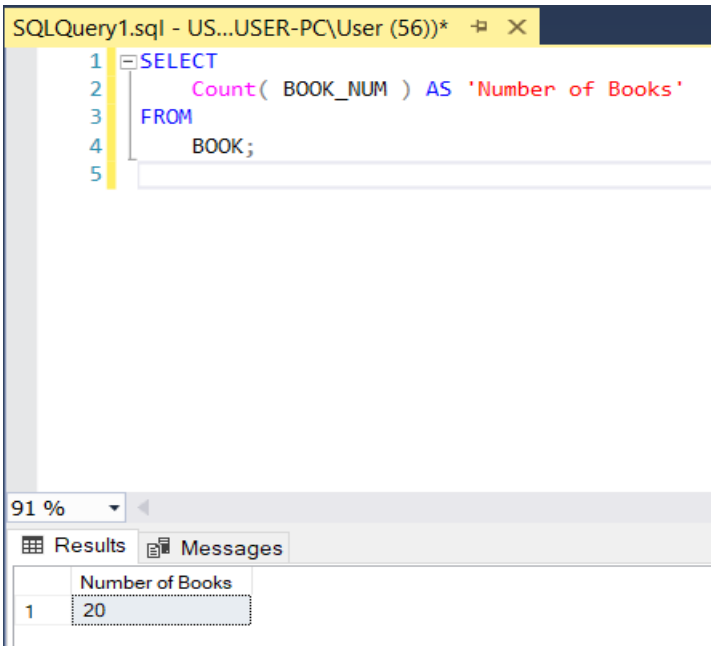
```
SELECT
	AUTHOR.AU_ID,
	AUTHOR.AU_FNAME,
	AUTHOR.AU_LNAME,
	AUTHOR.AU_BIRTHYEAR
FROM
	AUTHOR
ORDER BY
	AUTHOR.AU_BIRTHYEAR DESC,
	AUTHOR.AU_LNAME;
```



	AU_ID	AU_FNAME	AU_LNAME	AU_BIRTHYEAR
1	185	Benson	Reeves	1990
2	603	Julia	Palca	1988
3	438	Perry	Pearson	1986
4	581	Manish	Aggerwal	1984
5	218	Rachel	Beatney	1983
6	460	Connie	Paulsen	1983
7	394	Robert	Lake	1982
8	383	Neal	Walsh	1980
9	592	Lawrence	Sheel	1976
10	251	Hugo	Bruer	1972
11	273	Reba	Durante	1969
12	284	Trina	Tankersly	1961
13	262	Xia	Chiang	NULL
14	559	Rachel	McGill	NULL
15	229	Carmine	Salvadore	NULL

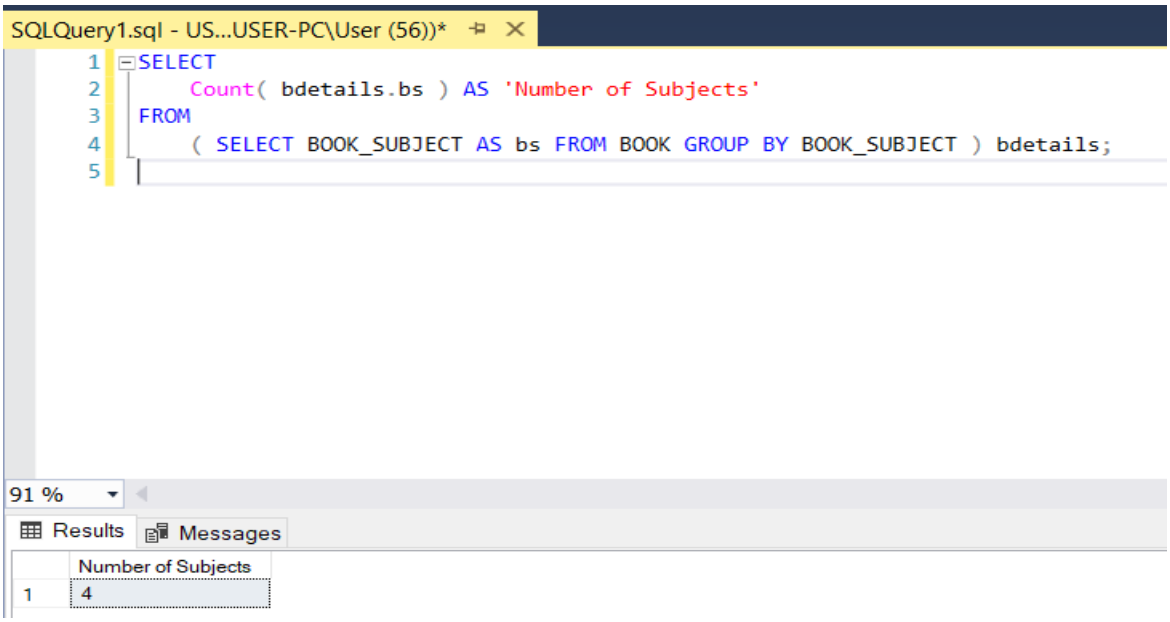
78.

```
SELECT
	Count( BOOK_NUM ) AS 'Number of Books'
FROM
	BOOK;
```



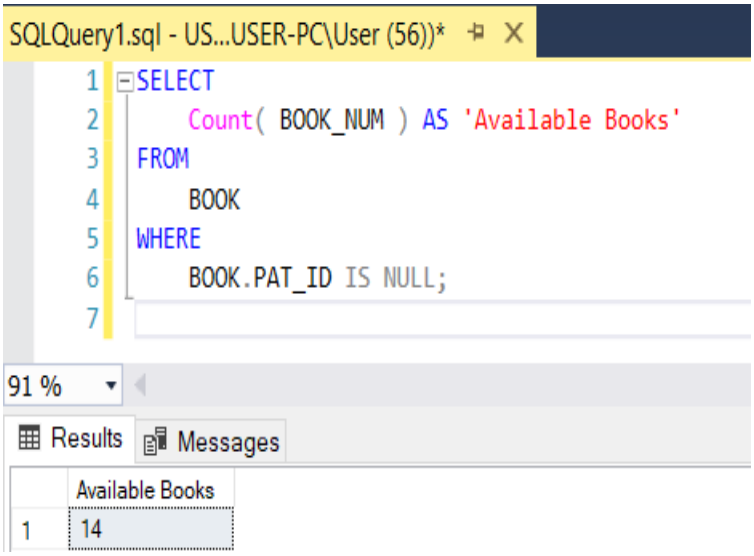
79.

```
SELECT
	Count( bdetails.bs ) AS 'Number of Subjects'
FROM
	( SELECT BOOK_SUBJECT AS bs FROM BOOK GROUP BY BOOK_SUBJECT ) bdetails;
```



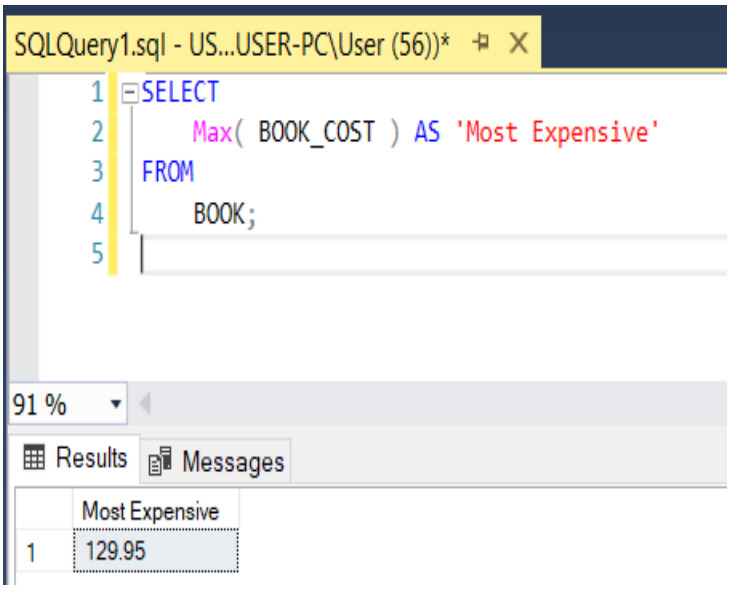
80.

```
SELECT
	Count( BOOK_NUM ) AS 'Available Books'
FROM
	BOOK
WHERE
	BOOK.PAT_ID IS NULL;
```



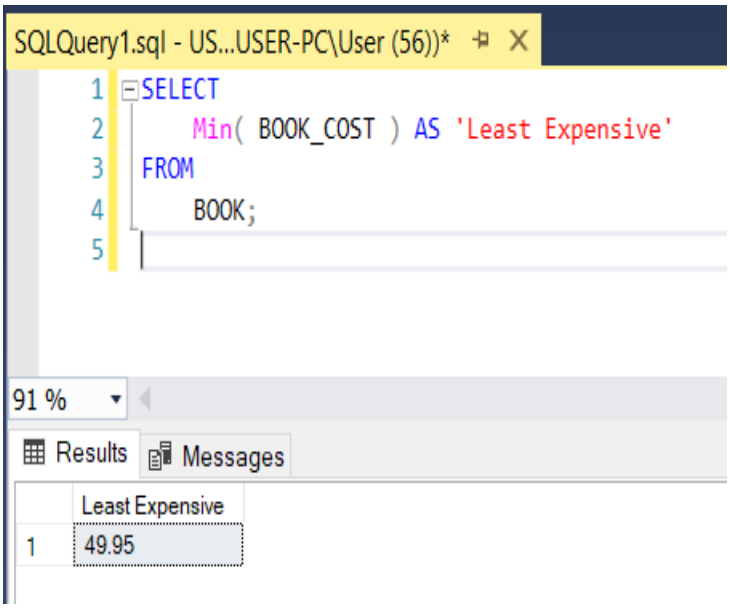
81.

```
SELECT
	Max( BOOK_COST ) AS 'Most Expensive'
FROM
	BOOK;
```



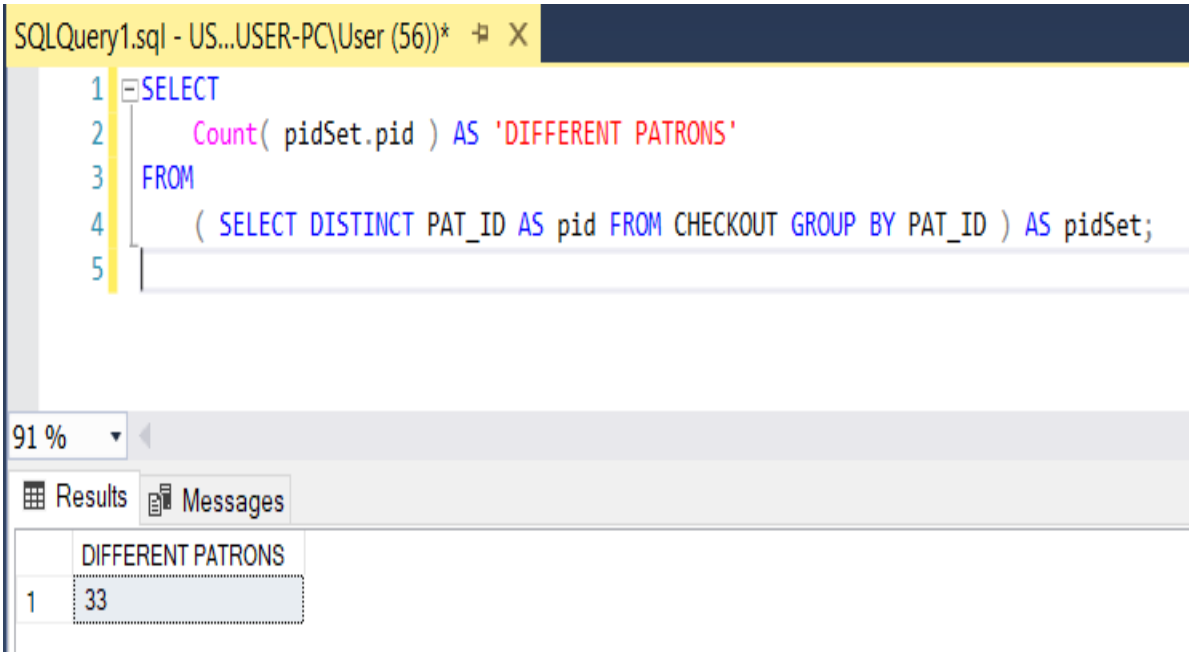
82.

```
SELECT
	Min( BOOK_COST ) AS 'Least Expensive'
FROM
	BOOK;
```



83.

```
SELECT
	Count( pidSet.pid ) AS 'DIFFERENT PATRONS'
FROM
	( SELECT DISTINCT PAT_ID AS pid FROM CHECKOUT GROUP BY PAT_ID ) AS pidSet;
```



84.

```
SELECT
	BOOK.BOOK_SUBJECT,
	Count( BOOK.BOOK_NUM ) AS 'Books in Subject'
FROM
	BOOK
GROUP BY
	BOOK.BOOK_SUBJECT,
	BOOK.BOOK_SUBJECT
ORDER BY
	Count( BOOK.BOOK_NUM ) DESC,
	BOOK.BOOK_SUBJECT;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      BOOK.BOOK_SUBJECT,
3      Count( BOOK.BOOK_NUM ) AS 'Books in Subject'
4  FROM
5      BOOK
6  GROUP BY
7      BOOK.BOOK_SUBJECT,
8      BOOK.BOOK_SUBJECT
9  ORDER BY
10     Count( BOOK.BOOK_NUM ) DESC,
11     BOOK.BOOK_SUBJECT;
12
```

91 %

Results | Messages

	BOOK_SUBJECT	Books in Subject
1	Programming	9
2	Cloud	4
3	Database	4
4	Middleware	3

85.

```
SELECT
	WRITES.AU_ID,
	Count( WRITES.BOOK_NUM ) AS 'Books Written'
FROM
	WRITES
GROUP BY
	WRITES.AU_ID
ORDER BY
	Count( WRITES.BOOK_NUM ) DESC,
	WRITES.AU_ID;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      WRITES.AU_ID,
3      Count( WRITES.BOOK_NUM ) AS 'Books Written'
4  FROM
5      WRITES
6  GROUP BY
7      WRITES.AU_ID
8  ORDER BY
9      Count( WRITES.BOOK_NUM ) DESC,
10     WRITES.AU_ID;
11
```

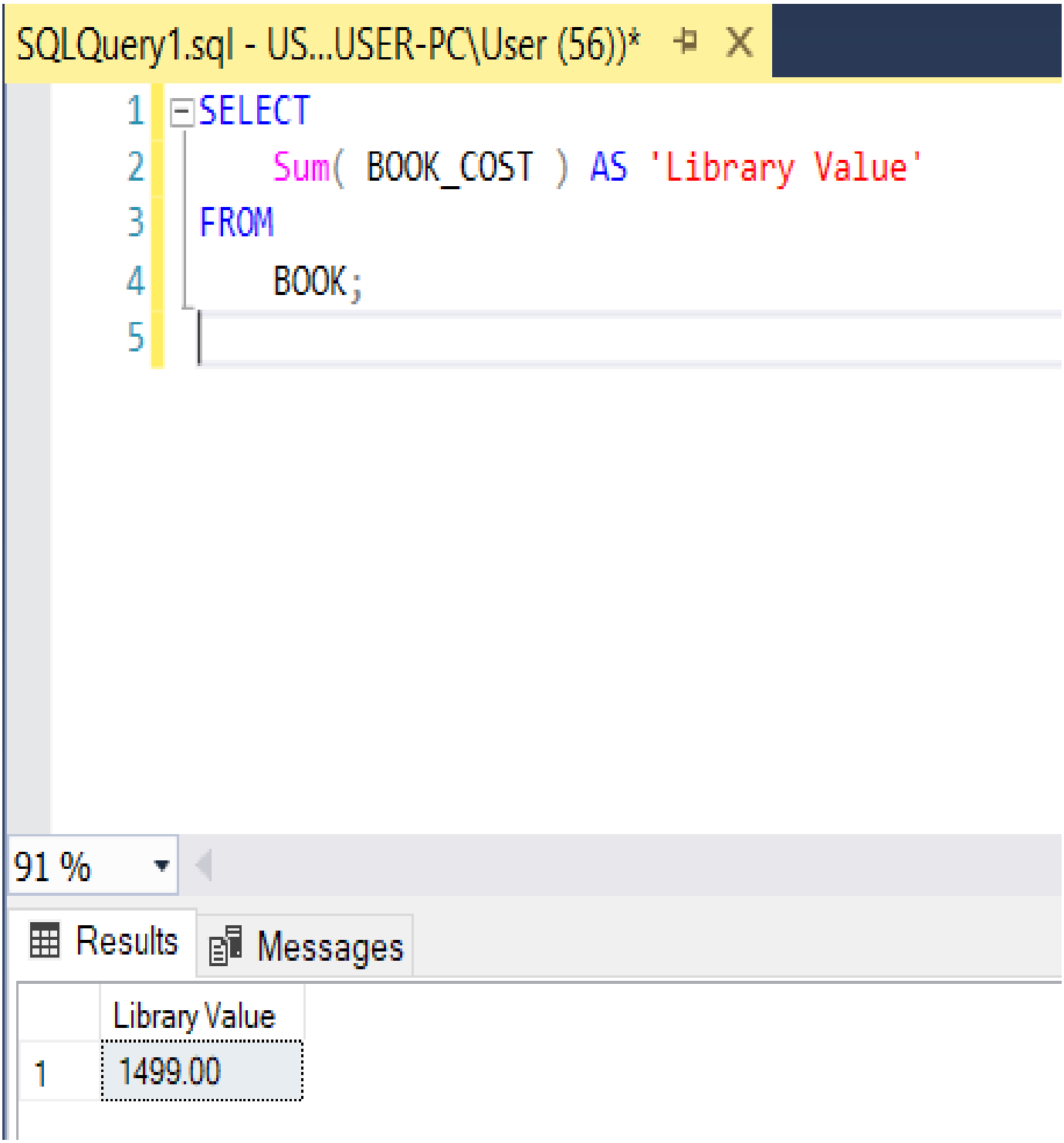
91 %

Results | Messages

	AU_ID	Books Written
1	262	3
2	460	3
3	185	2
4	229	2
5	251	2
6	383	2
7	394	2
8	559	2
9	218	1
10	273	1
11	284	1
12	438	1
13	581	1
14	592	1
15	603	1

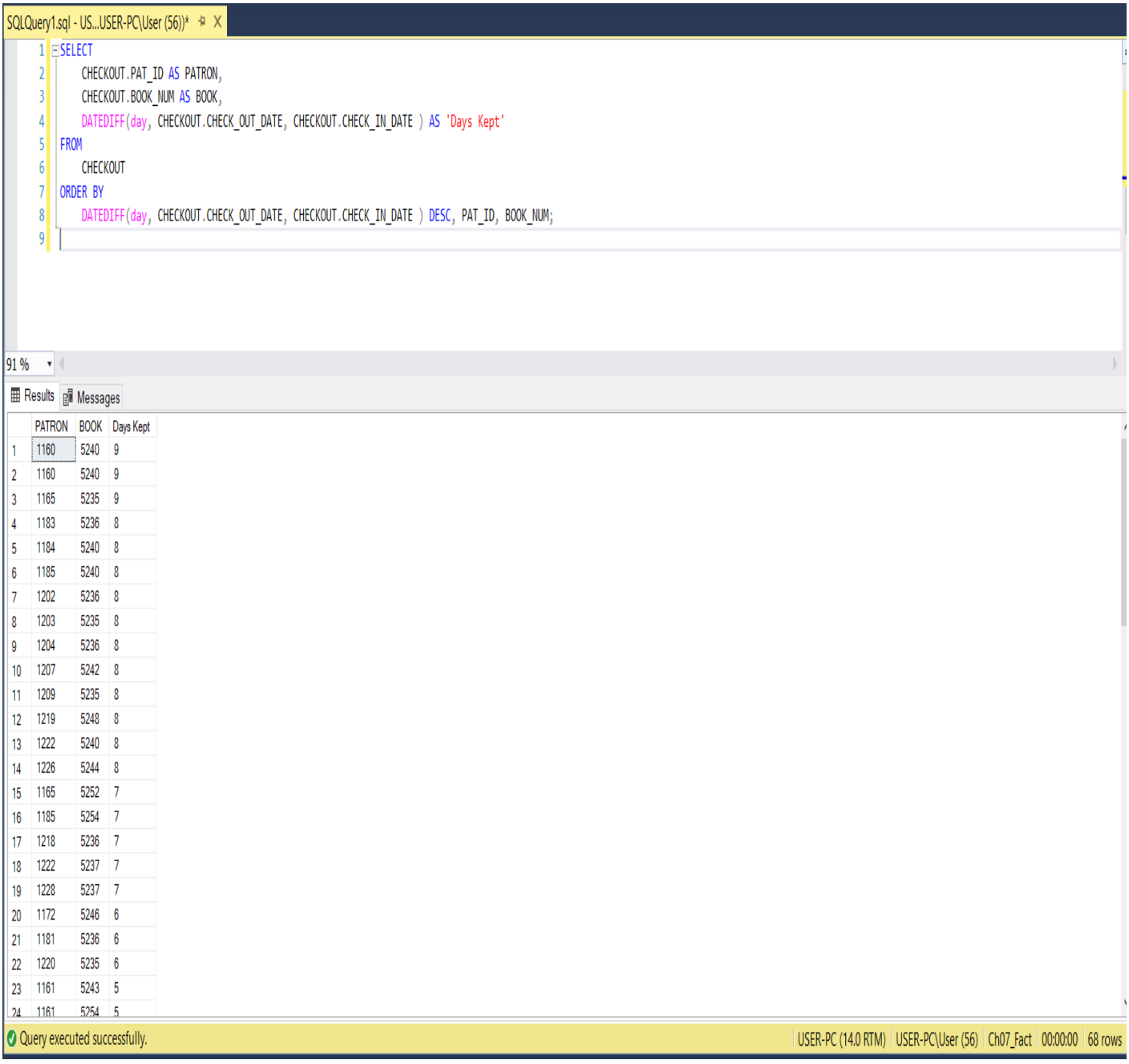
86.

```
SELECT
	Sum( BOOK_COST ) AS 'Library Value'
FROM
	BOOK;
```



87.

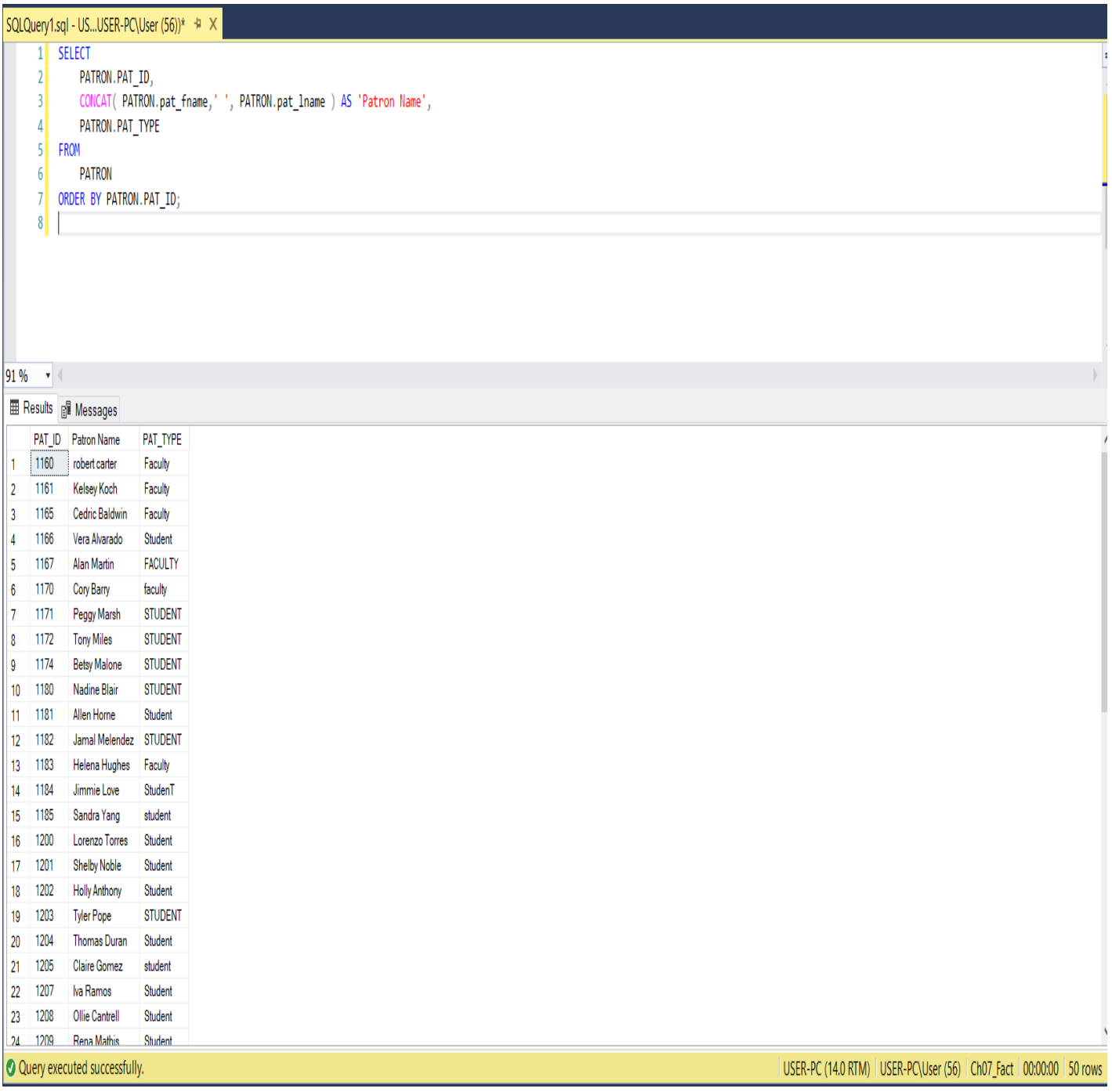
```
SELECT
	CHECKOUT.PAT_ID AS PATRON,
	CHECKOUT.BOOK_NUM AS BOOK,
	DATEDIFF(day, CHECKOUT.CHECK_OUT_DATE, CHECKOUT.CHECK_IN_DATE ) AS 'Days Kept'
FROM
	CHECKOUT
ORDER BY
	DATEDIFF(day, CHECKOUT.CHECK_OUT_DATE, CHECKOUT.CHECK_IN_DATE ) DESC, PAT_ID,
BOOK_NUM;
```



	PATRON	BOOK	Days Kept
1	1160	5240	9
2	1160	5240	9
3	1165	5235	9
4	1183	5236	8
5	1184	5240	8
6	1185	5240	8
7	1202	5236	8
8	1203	5235	8
9	1204	5236	8
10	1207	5242	8
11	1209	5235	8
12	1219	5248	8
13	1222	5240	8
14	1226	5244	8
15	1165	5252	7
16	1185	5254	7
17	1218	5236	7
18	1222	5237	7
19	1228	5237	7
20	1172	5246	6
21	1181	5236	6
22	1220	5235	6
23	1161	5243	5
24	1161	5254	5

88.

```
SELECT
        PATRON.PAT_ID,
        CONCAT( PATRON.pat_fname,' ', PATRON.pat_lname ) AS 'Patron Name',
        PATRON.PAT_TYPE
FROM
        PATRON
ORDER BY PATRON.PAT_ID;
```



	PAT_ID	Patron Name	PAT_TYPE
1	1160	robert carter	Faculty
2	1161	Kelsey Koch	Faculty
3	1165	Cedric Baldwin	Faculty
4	1166	Vera Alvarado	Student
5	1167	Alan Martin	FACULTY
6	1170	Cory Barry	faculty
7	1171	Peggy Marsh	STUDENT
8	1172	Tony Miles	STUDENT
9	1174	Betsy Malone	STUDENT
10	1180	Nadine Blair	STUDENT
11	1181	Allen Horne	Student
12	1182	Jamal Melendez	STUDENT
13	1183	Helena Hughes	Faculty
14	1184	Jimmie Love	StudenT
15	1185	Sandra Yang	student
16	1200	Lorenzo Torres	Student
17	1201	Shelby Noble	Student
18	1202	Holly Anthony	Student
19	1203	Tyler Pope	STUDENT
20	1204	Thomas Duran	Student
21	1205	Claire Gomez	student
22	1207	Iva Ramos	Student
23	1208	Ollie Cantrell	Student
24	1209	Rena Mathis	Student

89.

```
SELECT
        BOOK.BOOK_NUM,
        CONCAT( BOOK.BOOK_TITLE, ' (', BOOK.BOOK_YEAR, ')' ) AS BOOK,
        BOOK.BOOK_SUBJECT
FROM
        BOOK
ORDER BY BOOK.BOOK_NUM;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      BOOK.BOOK_NUM,
3      CONCAT( BOOK.BOOK_TITLE, ' (', BOOK.BOOK_YEAR, ')' ) AS BOOK,
4      BOOK.BOOK_SUBJECT
5  FROM
6      BOOK
7  ORDER BY BOOK.BOOK_NUM;
8
```

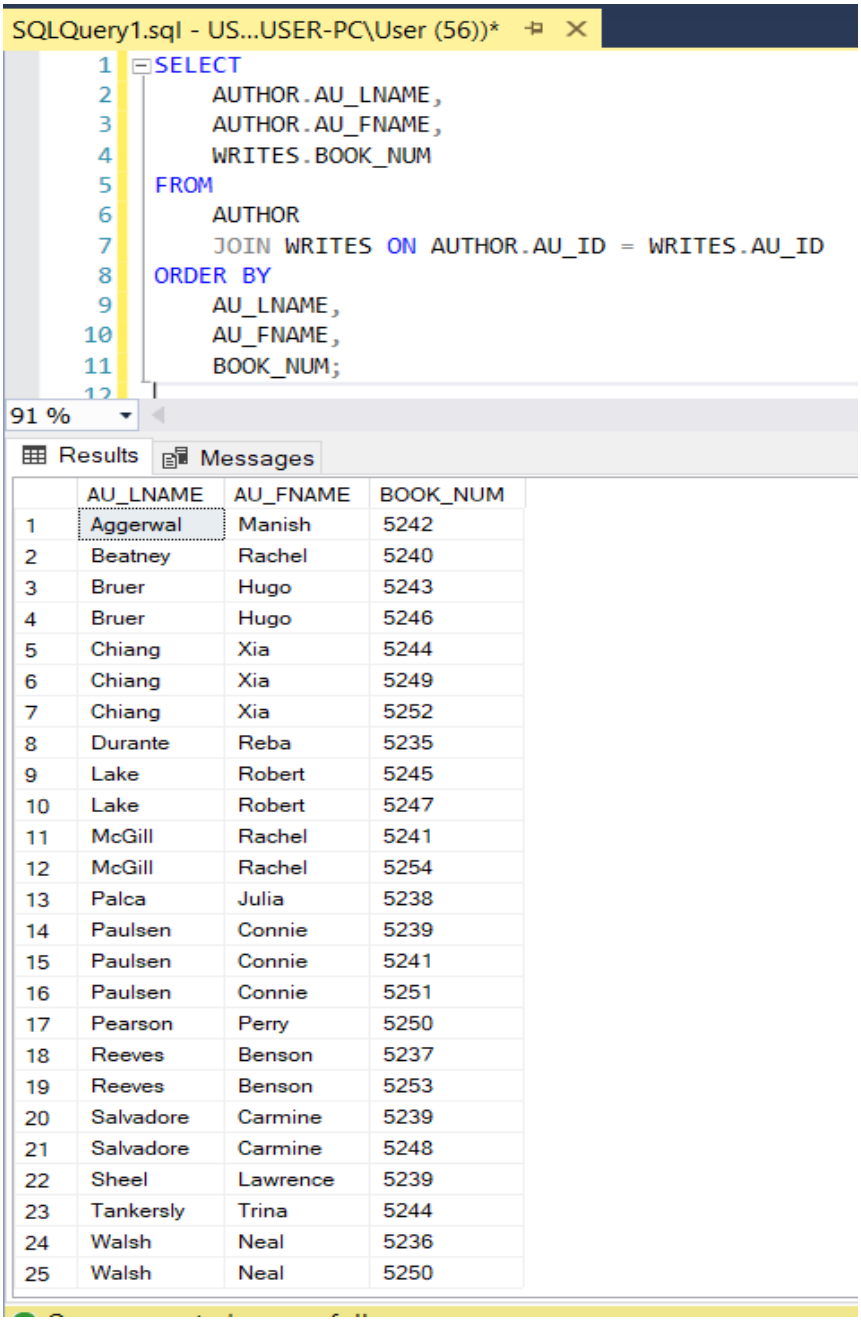
91 %

Results | Messages

	BOOK_NUM	BOOK	BOOK_SUBJECT
1	5235	Beginner's Guide to JAVA (2014)	Programming
2	5236	Database in the Cloud (2014)	Cloud
3	5237	Mastering the database environment (2015)	Database
4	5238	Conceptual Programming (2015)	Programming
5	5239	J++ in Mobile Apps (2015)	Programming
6	5240	iOS Programming (2015)	Programming
7	5241	JAVA First Steps (2015)	Programming
8	5242	C# in Middleware Deployment (2015)	Middleware
9	5243	DATABASES in Theory (2015)	Database
10	5244	Cloud-based Mobile Applications (2015)	Cloud
11	5245	The Golden Road to Platform independence (2016)	Middleware
12	5246	Capture the Cloud (2016)	Cloud
13	5247	Shining Through the Cloud: Sun Programming (2016)	Programming
14	5248	What You Always Wanted to Know About Database, B...	Database
15	5249	Starlight Applications (2016)	Cloud
16	5250	Reengineering the Middle Tier (2016)	Middleware
17	5251	Thoughts on Revitalizing Ruby (2016)	Programming
18	5252	Beyond the Database Veil (2016)	Database
19	5253	Virtual Programming for Virtual Environments (2016)	Programming
20	5254	Coding Style for Maintenance (2017)	Programming

90.

```
SELECT
	AUTHOR.AU_LNAME,
	AUTHOR.AU_FNAME,
	WRITES.BOOK_NUM
FROM
	AUTHOR
	JOIN WRITES ON AUTHOR.AU_ID = WRITES.AU_ID
ORDER BY
	AU_LNAME,
	AU_FNAME,
	BOOK_NUM;
```



	AU_LNAME	AU_FNAME	BOOK_NUM
1	Aggerwal	Manish	5242
2	Beatney	Rachel	5240
3	Bruer	Hugo	5243
4	Bruer	Hugo	5246
5	Chiang	Xia	5244
6	Chiang	Xia	5249
7	Chiang	Xia	5252
8	Durante	Reba	5235
9	Lake	Robert	5245
10	Lake	Robert	5247
11	McGill	Rachel	5241
12	McGill	Rachel	5254
13	Palca	Julia	5238
14	Paulsen	Connie	5239
15	Paulsen	Connie	5241
16	Paulsen	Connie	5251
17	Pearson	Perry	5250
18	Reeves	Benson	5237
19	Reeves	Benson	5253
20	Salvadore	Carmine	5239
21	Salvadore	Carmine	5248
22	Sheel	Lawrence	5239
23	Tankersly	Trina	5244
24	Walsh	Neal	5236
25	Walsh	Neal	5250

91.

```
SELECT
	WRITES.AU_ID,
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_SUBJECT
FROM
	BOOK
	INNER JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM
ORDER BY
	BOOK.BOOK_NUM,
	WRITES.AU_ID;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      WRITES.AU_ID,
3      BOOK.BOOK_NUM,
4      BOOK.BOOK_TITLE,
5      BOOK.BOOK_SUBJECT
6  FROM
7      BOOK
8      INNER JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM
9  ORDER BY
10     BOOK.BOOK_NUM,
11     WRITES.AU_ID;
```

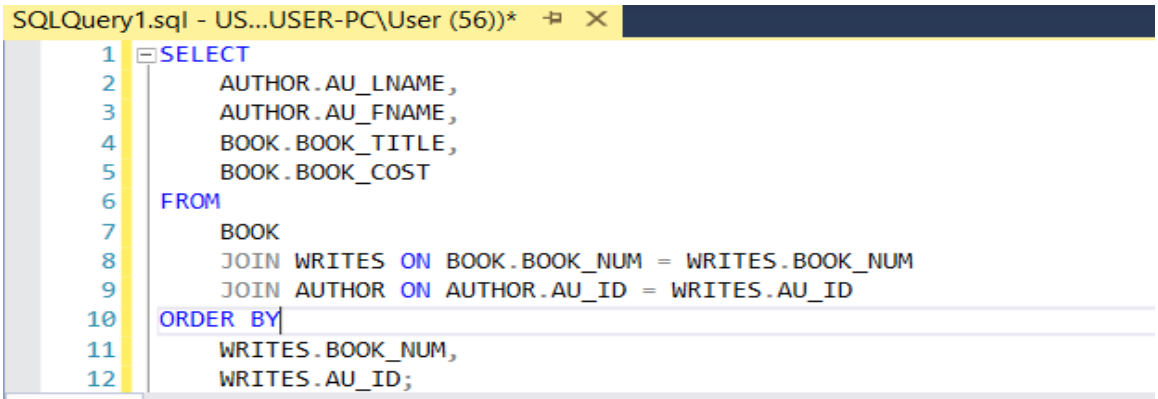
91 %

Results | Messages

	AU_ID	BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT
1	273	5235	Beginner's Guide to JAVA	Programming
2	383	5236	Database in the Cloud	Cloud
3	185	5237	Mastering the database environment	Database
4	603	5238	Conceptual Programming	Programming
5	229	5239	J++ in Mobile Apps	Programming
6	460	5239	J++ in Mobile Apps	Programming
7	592	5239	J++ in Mobile Apps	Programming
8	218	5240	iOS Programming	Programming
9	460	5241	JAVA First Steps	Programming
10	559	5241	JAVA First Steps	Programming
11	581	5242	C# in Middleware Deployment	Middleware
12	251	5243	DATABASES in Theory	Database
13	262	5244	Cloud-based Mobile Applications	Cloud
14	284	5244	Cloud-based Mobile Applications	Cloud
15	394	5245	The Golden Road to Platform independence	Middleware
16	251	5246	Capture the Cloud	Cloud
17	394	5247	Shining Through the Cloud: Sun Programming	Programming
18	229	5248	What You Always Wanted to Know About Database, B...	Database
19	262	5249	Starlight Applications	Cloud
20	383	5250	Reengineering the Middle Tier	Middleware
21	438	5250	Reengineering the Middle Tier	Middleware
22	460	5251	Thoughts on Revitalizing Ruby	Programming
23	262	5252	Beyond the Database Veil	Database
24	185	5253	Virtual Programming for Virtual Environments	Programming
25	559	5254	Coding Style for Maintenance	Programming

92.

```
SELECT
	AUTHOR.AU_LNAME,
	AUTHOR.AU_FNAME,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_COST
FROM
	BOOK
	JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM
	JOIN AUTHOR ON AUTHOR.AU_ID = WRITES.AU_ID
ORDER BY
	WRITES.BOOK_NUM,
	WRITES.AU_ID;
```



	AU_LNAME	AU_FNAME	BOOK_TITLE	BOOK_COST
1	Durante	Reba	Beginner's Guide to JAVA	59.95
2	Walsh	Neal	Database in the Cloud	79.95
3	Reeves	Benson	Mastering the database environment	89.95
4	Palca	Julia	Conceptual Programming	59.95
5	Salvadore	Carmine	J++ in Mobile Apps	49.95
6	Paulsen	Connie	J++ in Mobile Apps	49.95
7	Sheel	Lawrence	J++ in Mobile Apps	49.95
8	Beatney	Rachel	iOS Programming	79.95
9	Paulsen	Connie	JAVA First Steps	49.95
10	McGill	Rachel	JAVA First Steps	49.95
11	Aggerwal	Manish	C# in Middleware Deployment	59.95
12	Bruer	Hugo	DATABASES in Theory	129.95
13	Chiang	Xia	Cloud-based Mobile Applications	69.95
14	Tankersly	Trina	Cloud-based Mobile Applications	69.95
15	Lake	Robert	The Golden Road to Platform independence	119.95
16	Bruer	Hugo	Capture the Cloud	69.95
17	Lake	Robert	Shining Through the Cloud: Sun Programming	109.95
18	Salvadore	Carmine	What You Always Wanted to Know About Database, B...	49.95
19	Chiang	Xia	Starlight Applications	69.95
20	Walsh	Neal	Reengineering the Middle Tier	89.95
21	Pearson	Perry	Reengineering the Middle Tier	89.95
22	Paulsen	Connie	Thoughts on Revitalizing Ruby	59.95
23	Chiang	Xia	Beyond the Database Veil	69.95
24	Reeves	Benson	Virtual Programming for Virtual Environments	79.95
25	McGill	Rachel	Coding Style for Maintenance	49.95

93.

```
SELECT
	PATRON.PAT_ID,
	BOOK.BOOK_NUM,
	PATRON.PAT_FNAME,
	PATRON.PAT_LNAME,
	BOOK.BOOK_TITLE
FROM
	PATRON
	INNER JOIN BOOK ON PATRON.PAT_ID = BOOK.PAT_ID
ORDER BY
	PATRON.PAT_LNAME,
	BOOK.BOOK_TITLE;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      PATRON.PAT_ID,
3      BOOK.BOOK_NUM,
4      PATRON.PAT_FNAME,
5      PATRON.PAT_LNAME,
6      BOOK.BOOK_TITLE
7  FROM
8      PATRON
9      INNER JOIN BOOK ON PATRON.PAT_ID = BOOK.PAT_ID
10 ORDER BY
11     PATRON.PAT_LNAME,
12     BOOK.BOOK_TITLE;
13
```

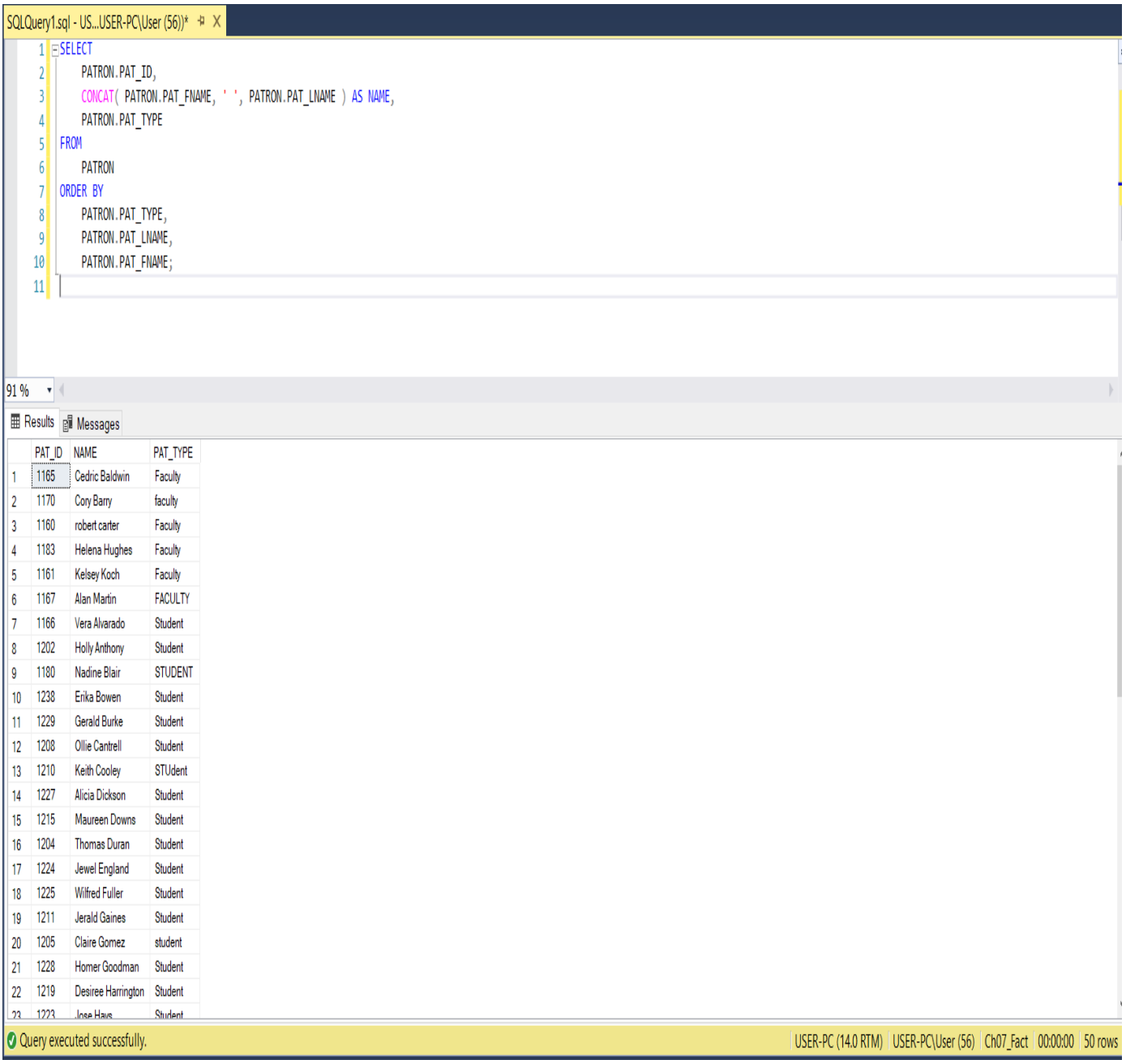
91 %

Results | Messages

	PAT_ID	BOOK_NUM	PAT_FNAME	PAT_LNAME	BOOK_TITLE
1	1229	5252	Gerald	Burke	Beyond the Database Veil
2	1229	5238	Gerald	Burke	Conceptual Programming
3	1228	5242	Homer	Goodman	C# in Middleware Deployment
4	1212	5240	Iva	McClain	iOS Programming
5	1172	5246	Tony	Miles	Capture the Cloud
6	1207	5249	Iva	Ramos	Starlight Applications

94.

```
SELECT
        PATRON.PAT_ID,
        CONCAT( PATRON.PAT_FNAME, ' ', PATRON.PAT_LNAME ) AS NAME,
        PATRON.PAT_TYPE
FROM
        PATRON
ORDER BY
        PATRON.PAT_TYPE,
        PATRON.PAT_LNAME,
        PATRON.PAT_FNAME;
```



	PAT_ID	NAME	PAT_TYPE
1	1165	Cedric Baldwin	Faculty
2	1170	Cory Barry	faculty
3	1160	robert carter	Faculty
4	1183	Helena Hughes	Faculty
5	1161	Kelsey Koch	Faculty
6	1167	Alan Martin	FACULTY
7	1166	Vera Alvarado	Student
8	1202	Holly Anthony	Student
9	1180	Nadine Blair	STUDENT
10	1238	Erika Bowen	Student
11	1229	Gerald Burke	Student
12	1208	Ollie Cantrell	Student
13	1210	Keith Cooley	STUdent
14	1227	Alicia Dickson	Student
15	1215	Maureen Downs	Student
16	1204	Thomas Duran	Student
17	1224	Jewel England	Student
18	1225	Wilfred Fuller	Student
19	1211	Jerald Gaines	Student
20	1205	Claire Gomez	student
21	1228	Homer Goodman	Student
22	1219	Desiree Harrington	Student
23	1223	Jose Havs	Student

95.

```
SELECT
	CHECKOUT.BOOK_NUM,
	COUNT( CHECKOUT.CHECK_NUM ) AS 'Times Checked Out'
FROM
	CHECKOUT
GROUP BY
	CHECKOUT.BOOK_NUM
ORDER BY
	COUNT( CHECKOUT.CHECK_NUM ) DESC;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      CHECKOUT.BOOK_NUM,
3      COUNT( CHECKOUT.CHECK_NUM ) AS 'Times Checked Out'
4  FROM
5      CHECKOUT
6  GROUP BY
7      CHECKOUT.BOOK_NUM
8  ORDER BY
9      COUNT( CHECKOUT.CHECK_NUM ) DESC;
10
```

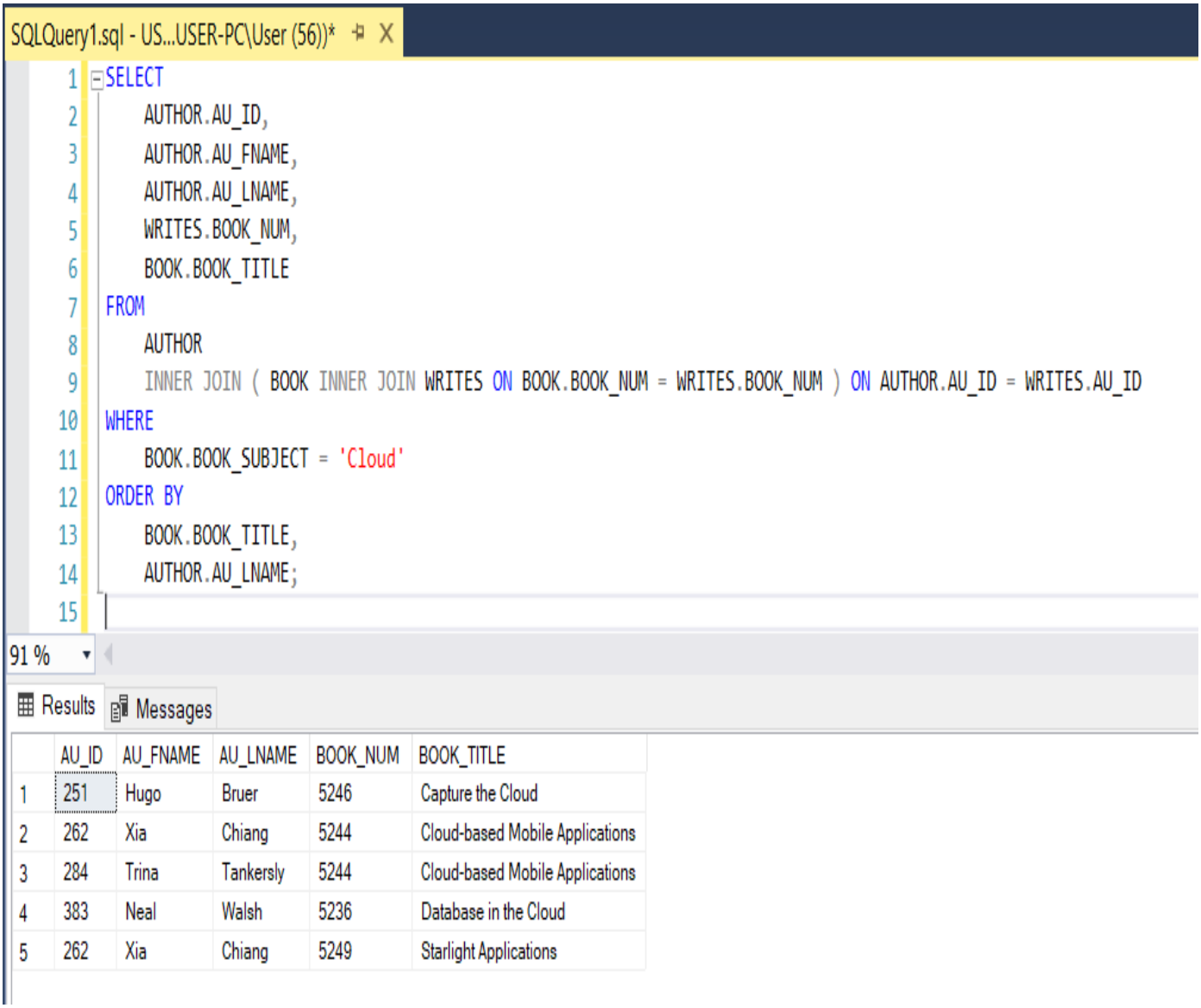
91 %

Results | Messages

	BOOK_NUM	Times Checked Out
1	5236	12
2	5235	9
3	5240	7
4	5238	6
5	5237	5
6	5242	4
7	5244	4
8	5246	4
9	5249	4
10	5252	4
11	5254	4
12	5248	3
13	5243	2

96.

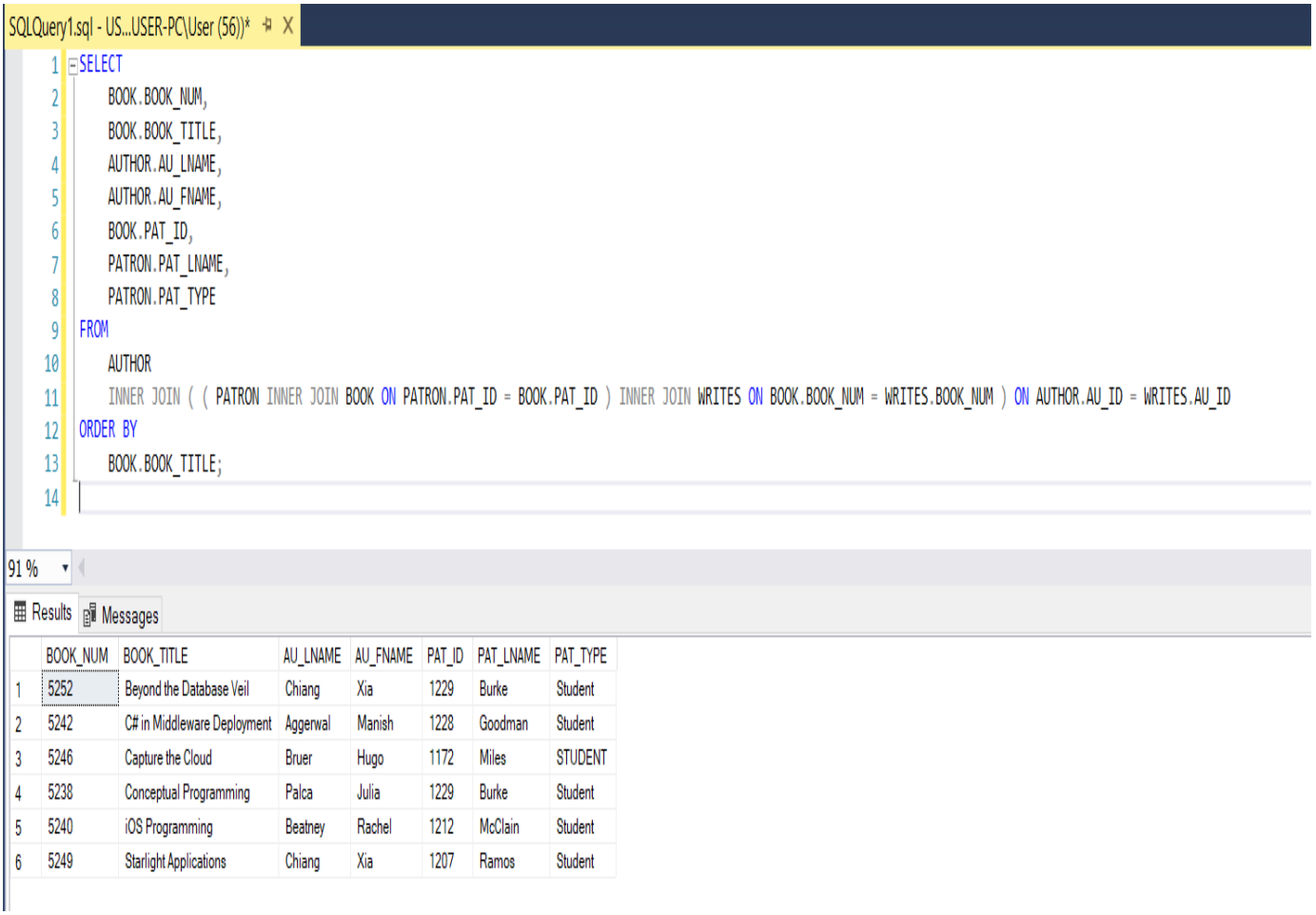
```
SELECT
	AUTHOR.AU_ID,
	AUTHOR.AU_FNAME,
	AUTHOR.AU_LNAME,
	WRITES.BOOK_NUM,
	BOOK.BOOK_TITLE
FROM
	AUTHOR
	INNER JOIN ( BOOK INNER JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM ) ON
AUTHOR.AU_ID = WRITES.AU_ID
WHERE
	BOOK.BOOK_SUBJECT = 'Cloud'
ORDER BY
	BOOK.BOOK_TITLE,
	AUTHOR.AU_LNAME;
```



	AU_ID	AU_FNAME	AU_LNAME	BOOK_NUM	BOOK_TITLE
1	251	Hugo	Bruer	5246	Capture the Cloud
2	262	Xia	Chiang	5244	Cloud-based Mobile Applications
3	284	Trina	Tankersly	5244	Cloud-based Mobile Applications
4	383	Neal	Walsh	5236	Database in the Cloud
5	262	Xia	Chiang	5249	Starlight Applications

97.

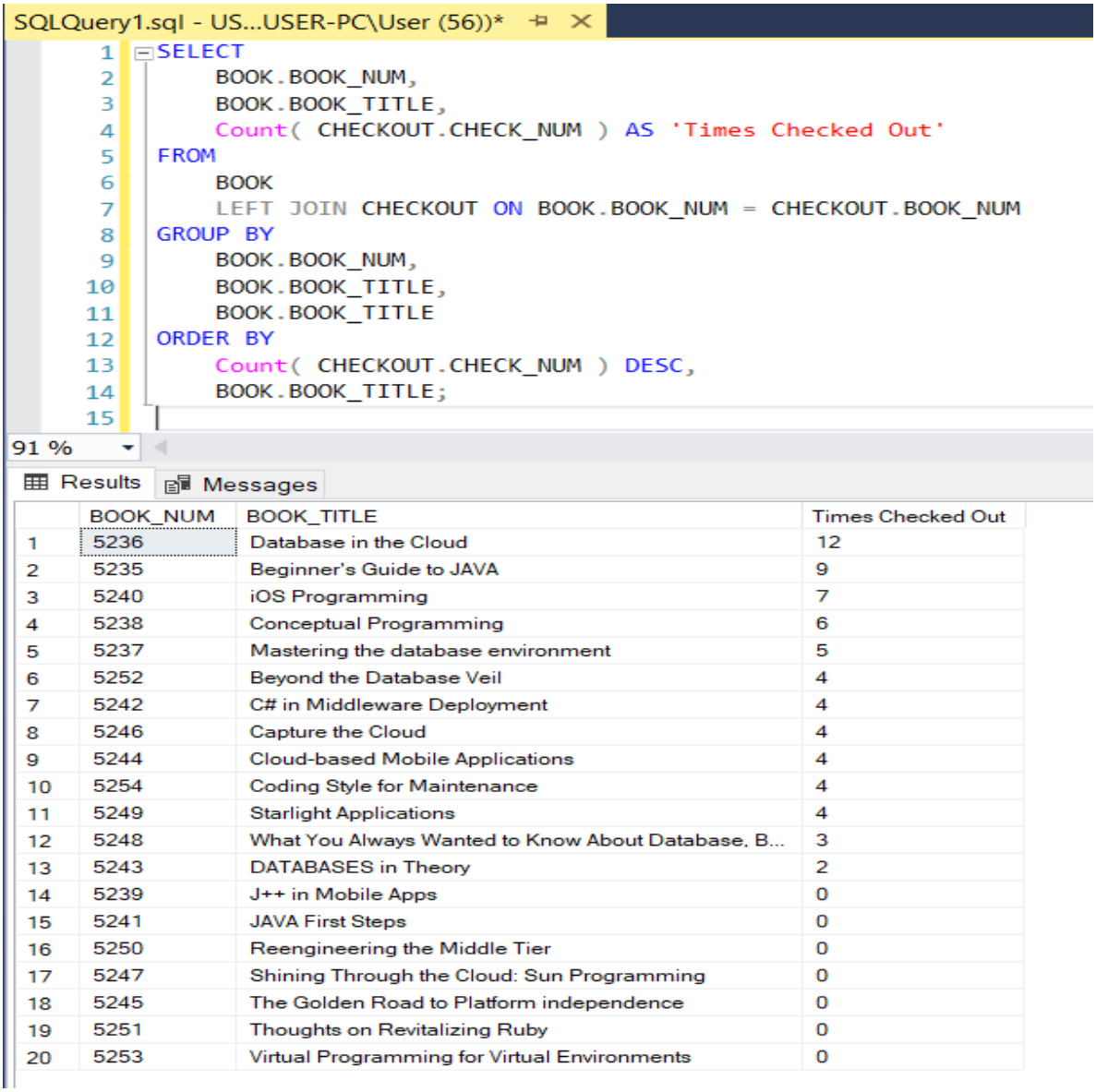
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	AUTHOR.AU_LNAME,
	AUTHOR.AU_FNAME,
	BOOK.PAT_ID,
	PATRON.PAT_LNAME,
	PATRON.PAT_TYPE
FROM
	AUTHOR
	INNER JOIN ( ( PATRON INNER JOIN BOOK ON PATRON.PAT_ID = BOOK.PAT_ID ) INNER JOIN
WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM ) ON AUTHOR.AU_ID = WRITES.AU_ID
ORDER BY
	BOOK.BOOK_TITLE;
```



	BOOK_NUM	BOOK_TITLE	AU_LNAME	AU_FNAME	PAT_ID	PAT_LNAME	PAT_TYPE
1	5252	Beyond the Database Veil	Chiang	Xia	1229	Burke	Student
2	5242	C# in Middleware Deployment	Aggerwal	Manish	1228	Goodman	Student
3	5246	Capture the Cloud	Bruer	Hugo	1172	Miles	STUDENT
4	5238	Conceptual Programming	Palca	Julia	1229	Burke	Student
5	5240	iOS Programming	Beatney	Rachel	1212	McClain	Student
6	5249	Starlight Applications	Chiang	Xia	1207	Ramos	Student

98.

```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	Count( CHECKOUT.CHECK_NUM ) AS 'Times Checked Out'
FROM
	BOOK
	LEFT JOIN CHECKOUT ON BOOK.BOOK_NUM = CHECKOUT.BOOK_NUM
GROUP BY
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_TITLE
ORDER BY
	Count( CHECKOUT.CHECK_NUM ) DESC,
	BOOK.BOOK_TITLE;
```



	BOOK_NUM	BOOK_TITLE	Times Checked Out
1	5236	Database in the Cloud	12
2	5235	Beginner's Guide to JAVA	9
3	5240	iOS Programming	7
4	5238	Conceptual Programming	6
5	5237	Mastering the database environment	5
6	5252	Beyond the Database Veil	4
7	5242	C# in Middleware Deployment	4
8	5246	Capture the Cloud	4
9	5244	Cloud-based Mobile Applications	4
10	5254	Coding Style for Maintenance	4
11	5249	Starlight Applications	4
12	5248	What You Always Wanted to Know About Database, B...	3
13	5243	DATABASES in Theory	2
14	5239	J++ in Mobile Apps	0
15	5241	JAVA First Steps	0
16	5250	Reengineering the Middle Tier	0
17	5247	Shining Through the Cloud: Sun Programming	0
18	5245	The Golden Road to Platform independence	0
19	5251	Thoughts on Revitalizing Ruby	0
20	5253	Virtual Programming for Virtual Environments	0

99.

```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	Count( CHECKOUT.CHECK_NUM ) AS 'Times Checked Out'
FROM
	BOOK
	INNER JOIN CHECKOUT ON BOOK.BOOK_NUM = CHECKOUT.BOOK_NUM
GROUP BY
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_TITLE
HAVING
	Count( CHECKOUT.CHECK_NUM ) > 5
ORDER BY
	Count( CHECKOUT.CHECK_NUM ) DESC,
	BOOK.BOOK_TITLE;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      BOOK.BOOK_NUM,
3      BOOK.BOOK_TITLE,
4      Count( CHECKOUT.CHECK_NUM ) AS 'Times Checked Out'
5  FROM
6      BOOK
7      INNER JOIN CHECKOUT ON BOOK.BOOK_NUM = CHECKOUT.BOOK_NUM
8  GROUP BY
9      BOOK.BOOK_NUM,
10     BOOK.BOOK_TITLE,
11     BOOK.BOOK_TITLE
12 HAVING
13     Count( CHECKOUT.CHECK_NUM ) > 5
14 ORDER BY
15     Count( CHECKOUT.CHECK_NUM ) DESC,
16     BOOK.BOOK_TITLE;
17
```

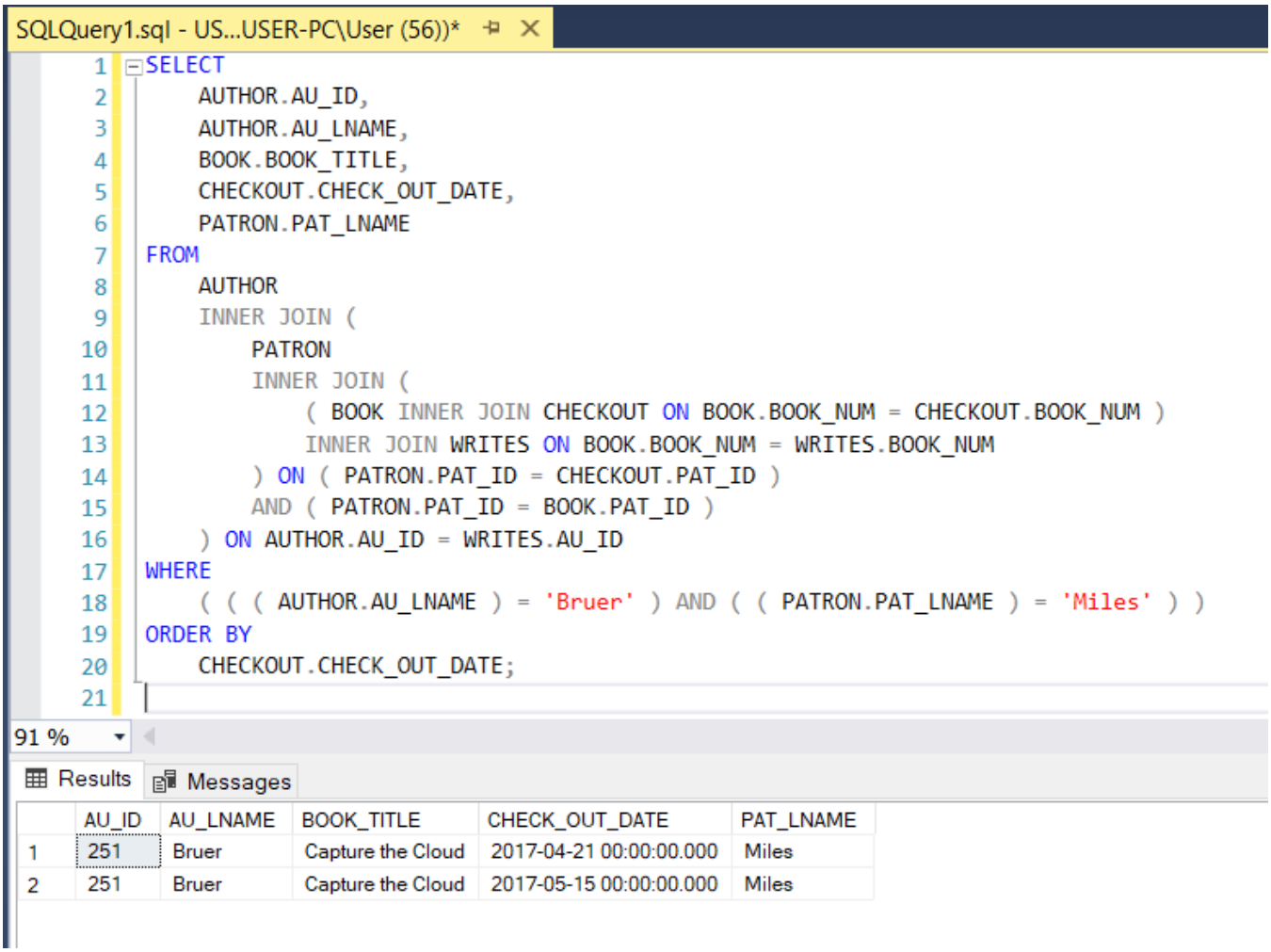
91 %

Results | Messages

	BOOK_NUM	BOOK_TITLE	Times Checked Out
1	5236	Database in the Cloud	12
2	5235	Beginner's Guide to JAVA	9
3	5240	iOS Programming	7
4	5238	Conceptual Programming	6

100.

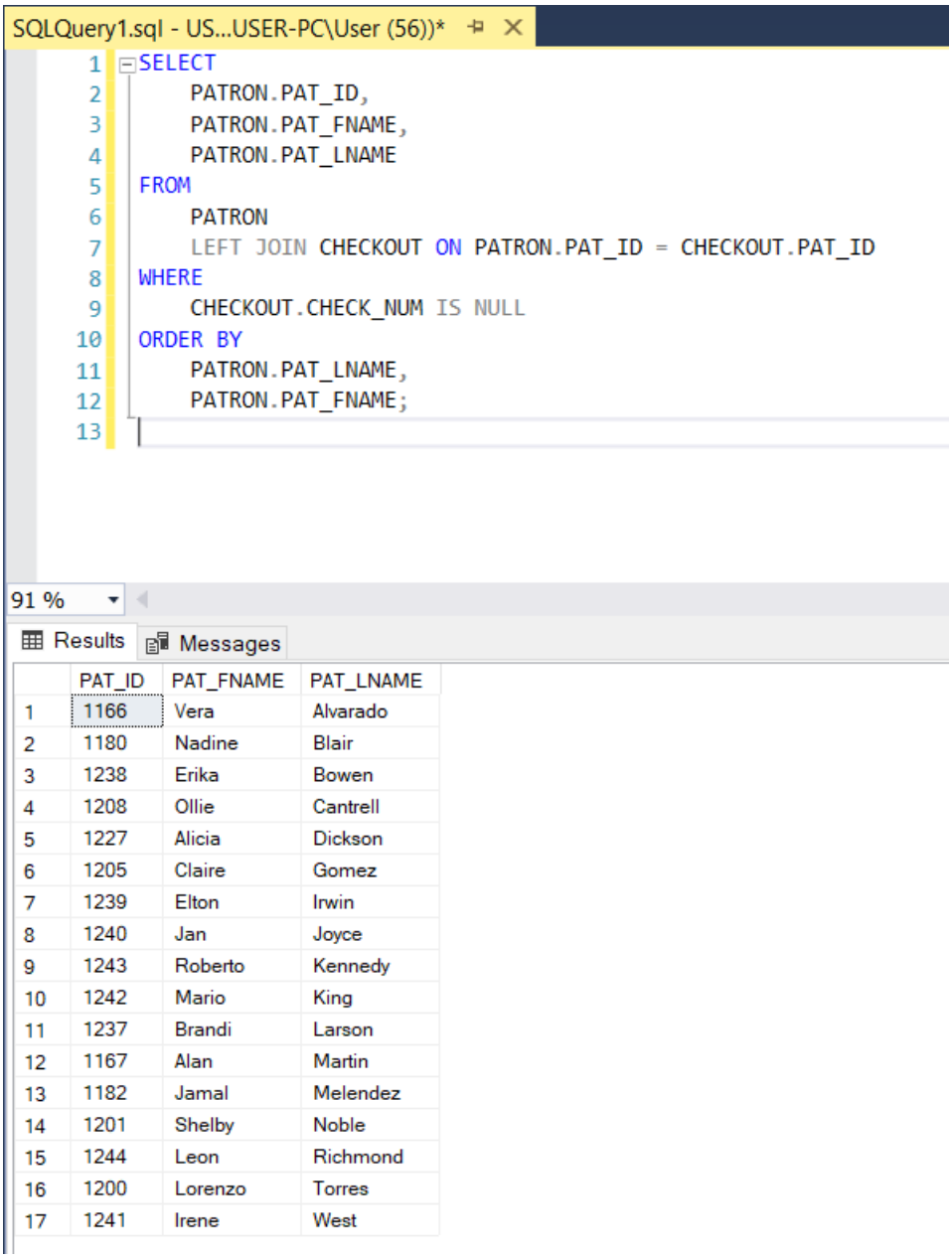
```
SELECT
	AUTHOR.AU_ID,
	AUTHOR.AU_LNAME,
	BOOK.BOOK_TITLE,
	CHECKOUT.CHECK_OUT_DATE,
	PATRON.PAT_LNAME
FROM
	AUTHOR
	INNER JOIN (
		PATRON
		INNER JOIN (
			( BOOK INNER JOIN CHECKOUT ON BOOK.BOOK_NUM = CHECKOUT.BOOK_NUM )
			INNER JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM
		) ON ( PATRON.PAT_ID = CHECKOUT.PAT_ID )
		AND ( PATRON.PAT_ID = BOOK.PAT_ID )
	) ON AUTHOR.AU_ID = WRITES.AU_ID
WHERE
	( ( ( AUTHOR.AU_LNAME ) = 'Bruer' ) AND ( ( PATRON.PAT_LNAME ) = 'Miles' ) )
ORDER BY
	CHECKOUT.CHECK_OUT_DATE;
```



	AU_ID	AU_LNAME	BOOK_TITLE	CHECK_OUT_DATE	PAT_LNAME
1	251	Bruer	Capture the Cloud	2017-04-21 00:00:00.000	Miles
2	251	Bruer	Capture the Cloud	2017-05-15 00:00:00.000	Miles

101.

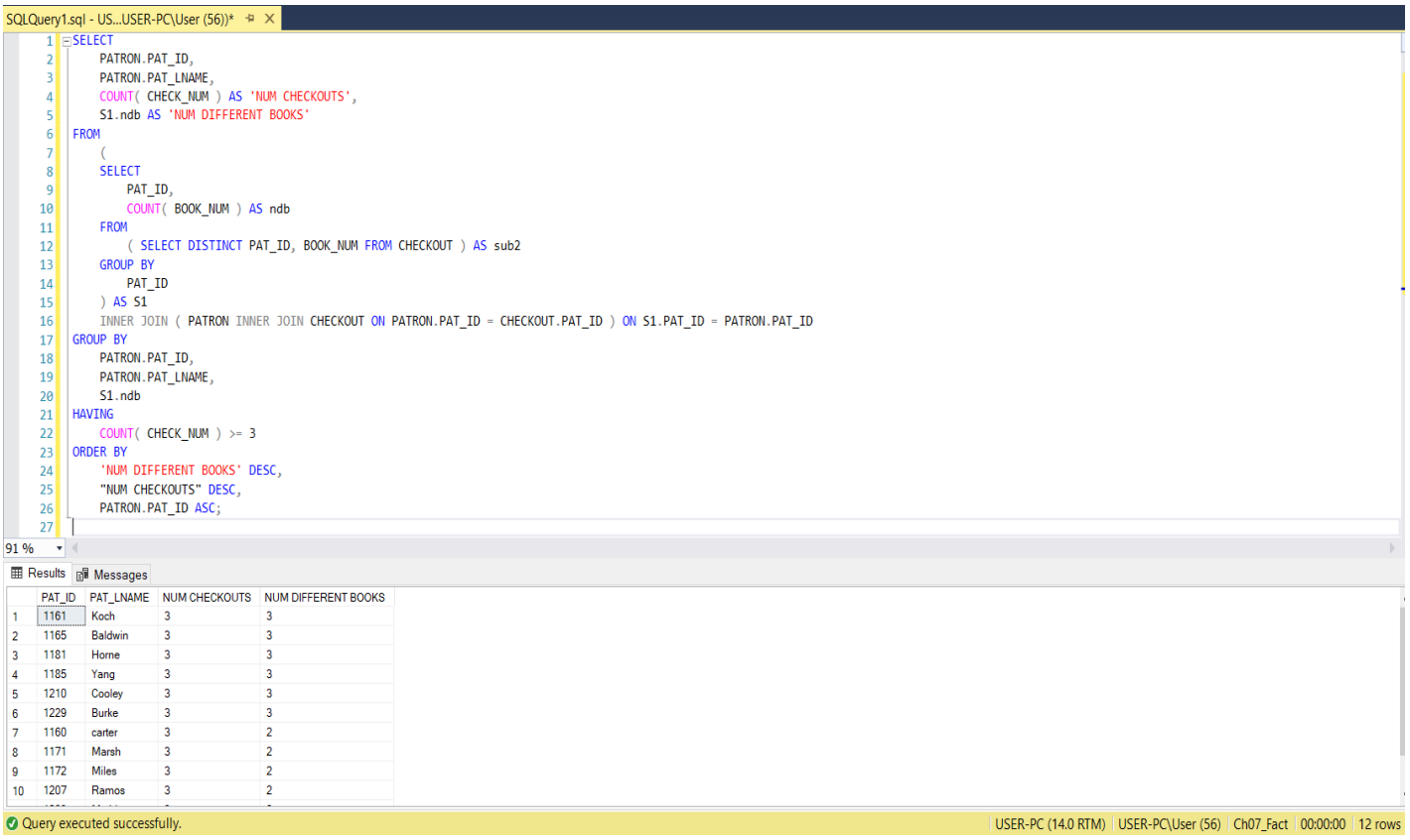
```
SELECT
	PATRON.PAT_ID,
	PATRON.PAT_FNAME,
	PATRON.PAT_LNAME
FROM
	PATRON
	LEFT JOIN CHECKOUT ON PATRON.PAT_ID = CHECKOUT.PAT_ID
WHERE
	CHECKOUT.CHECK_NUM IS NULL
ORDER BY
	PATRON.PAT_LNAME,
	PATRON.PAT_FNAME;
```



	PAT_ID	PAT_FNAME	PAT_LNAME
1	1166	Vera	Alvarado
2	1180	Nadine	Blair
3	1238	Erika	Bowen
4	1208	Ollie	Cantrell
5	1227	Alicia	Dickson
6	1205	Claire	Gomez
7	1239	Elton	Irwin
8	1240	Jan	Joyce
9	1243	Roberto	Kennedy
10	1242	Mario	King
11	1237	Brandi	Larson
12	1167	Alan	Martin
13	1182	Jamal	Melendez
14	1201	Shelby	Noble
15	1244	Leon	Richmond
16	1200	Lorenzo	Torres
17	1241	Irene	West

102.

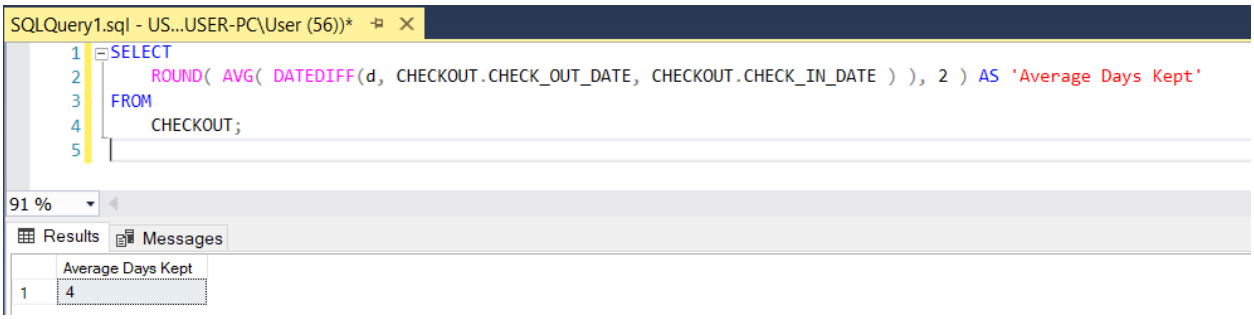
```
SELECT
	PATRON.PAT_ID,
	PATRON.PAT_LNAME,
	COUNT( CHECK_NUM ) AS 'NUM CHECKOUTS',
	S1.ndb AS 'NUM DIFFERENT BOOKS'
FROM
	(
	SELECT
		PAT_ID,
		COUNT( BOOK_NUM ) AS ndb
	FROM
		( SELECT DISTINCT PAT_ID, BOOK_NUM FROM CHECKOUT ) AS sub2
	GROUP BY
		PAT_ID
	) AS S1
	INNER JOIN ( PATRON INNER JOIN CHECKOUT ON PATRON.PAT_ID = CHECKOUT.PAT_ID ) ON
S1.PAT_ID = PATRON.PAT_ID
GROUP BY
	PATRON.PAT_ID,
	PATRON.PAT_LNAME,
	S1.ndb
HAVING
	COUNT( CHECK_NUM ) >= 3
ORDER BY
	'NUM DIFFERENT BOOKS' DESC,
	"NUM CHECKOUTS" DESC,
	PATRON.PAT_ID ASC;
```



	PAT_ID	PAT_LNAME	NUM CHECKOUTS	NUM DIFFERENT BOOKS
1	1161	Koch	3	3
2	1165	Baldwin	3	3
3	1181	Horne	3	3
4	1185	Yang	3	3
5	1210	Cooley	3	3
6	1229	Burke	3	3
7	1160	carter	3	2
8	1171	Marsh	3	2
9	1172	Miles	3	2
10	1207	Ramos	3	2

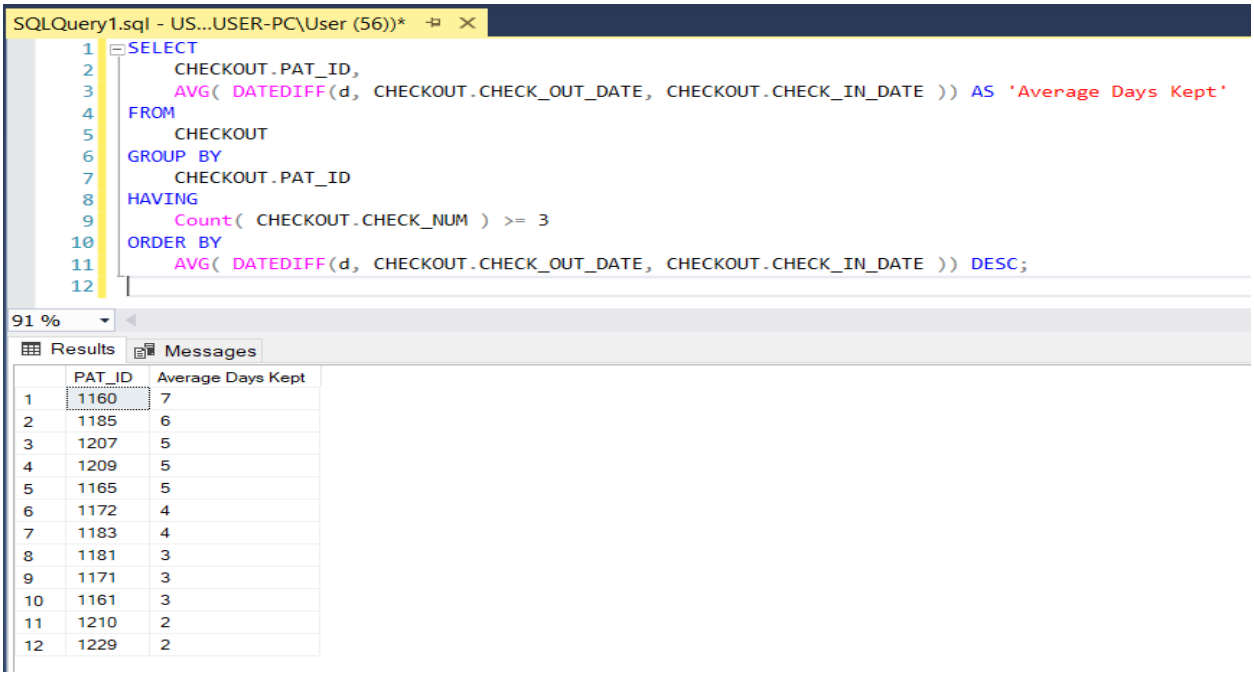
103.

```
SELECT
	ROUND( AVG( DATEDIFF(d, CHECKOUT.CHECK_OUT_DATE, CHECKOUT.CHECK_IN_DATE ) ), 2 )
AS 'Average Days Kept'
FROM
	CHECKOUT;
```



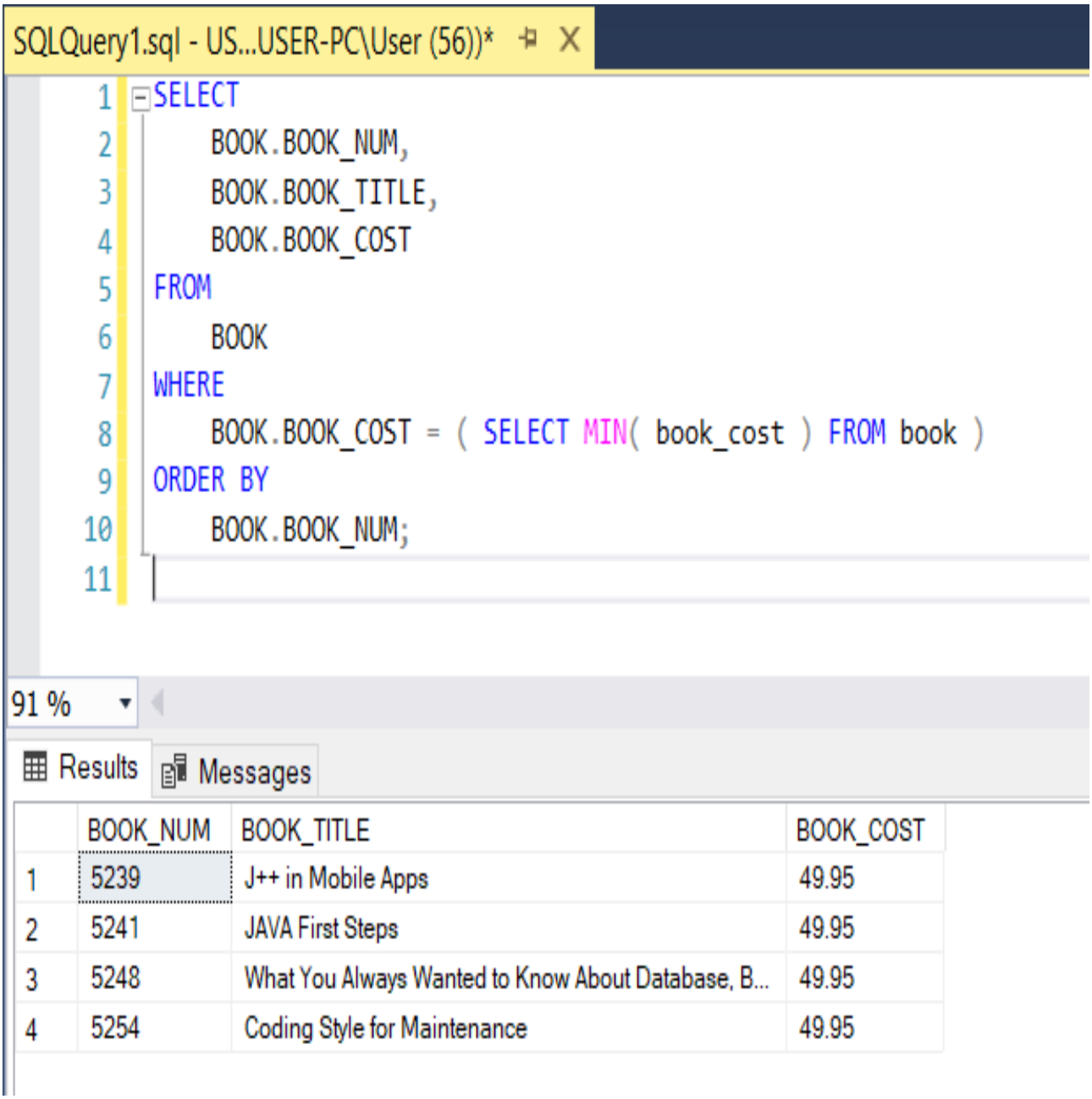
104.

```
SELECT
	CHECKOUT.PAT_ID,
	AVG( DATEDIFF(d, CHECKOUT.CHECK_OUT_DATE, CHECKOUT.CHECK_IN_DATE )) AS 'Average
Days Kept'
FROM
	CHECKOUT
GROUP BY
	CHECKOUT.PAT_ID
HAVING
	Count( CHECKOUT.CHECK_NUM ) >= 3
ORDER BY
	AVG( DATEDIFF(d, CHECKOUT.CHECK_OUT_DATE, CHECKOUT.CHECK_IN_DATE )) DESC;
```



105.

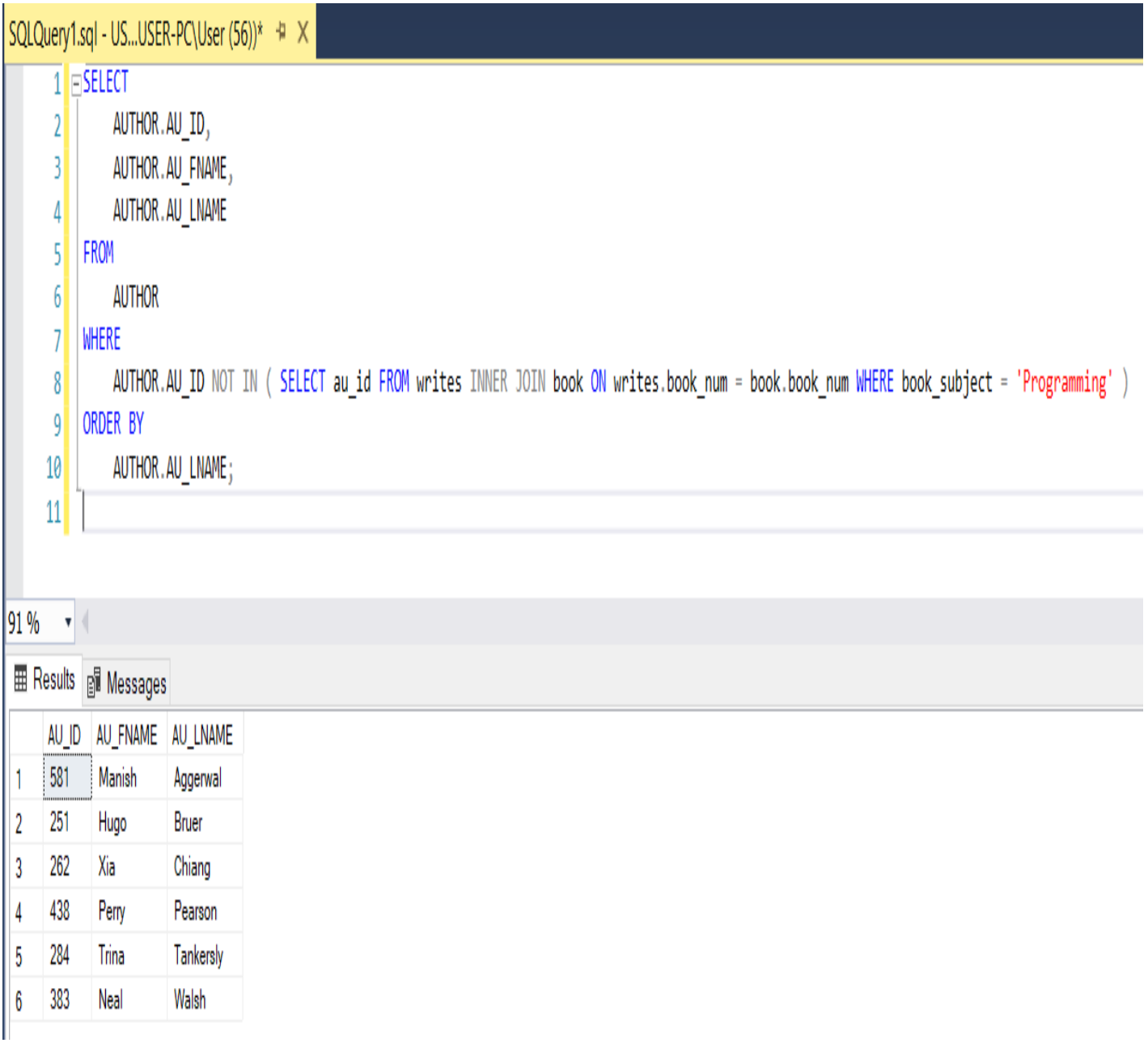
```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_COST
FROM
	BOOK
WHERE
	BOOK.BOOK_COST = ( SELECT MIN( book_cost ) FROM book )
ORDER BY
	BOOK.BOOK_NUM;
```



	BOOK_NUM	BOOK_TITLE	BOOK_COST
1	5239	J++ in Mobile Apps	49.95
2	5241	JAVA First Steps	49.95
3	5248	What You Always Wanted to Know About Database, B...	49.95
4	5254	Coding Style for Maintenance	49.95

106.

```
SELECT
        AUTHOR.AU_ID,
        AUTHOR.AU_FNAME,
        AUTHOR.AU_LNAME
FROM
        AUTHOR
WHERE
        AUTHOR.AU_ID NOT IN ( SELECT au_id FROM writes INNER JOIN book ON writes.book_num
= book.book_num WHERE book_subject = 'Programming' )
ORDER BY
        AUTHOR.AU_LNAME;
```



	AU_ID	AU_FNAME	AU_LNAME
1	581	Manish	Aggerwal
2	251	Hugo	Bruer
3	262	Xia	Chiang
4	438	Perry	Pearson
5	284	Trina	Tankersly
6	383	Neal	Walsh

107.

```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_SUBJECT,
	ROUND((AVGCOST),2) AS AVGCOST,
	ROUND((BOOK.BOOK_COST - AVGCOST),2) AS DIFFERENCE
FROM
	BOOK
	INNER JOIN ( SELECT book_subject, round( avg( book_cost ), 2 ) AS avgcost FROM
book GROUP BY book_subject ) AS s1 ON BOOK.BOOK_SUBJECT = s1.book_subject
	ORDER BY
		BOOK_TITLE;
```

SQLQuery1.sql - US...USER-PC\User (56))*

```
1  SELECT
2      BOOK.BOOK_NUM,
3      BOOK.BOOK_TITLE,
4      BOOK.BOOK_SUBJECT,
5      ROUND((AVGCOST),2) AS AVGCOST,
6      ROUND((BOOK.BOOK_COST - AVGCOST),2) AS DIFFERENCE
7  FROM
8      BOOK
9      INNER JOIN ( SELECT book_subject, round( avg( book_cost ), 2 ) AS avgcost FROM book GROUP BY book_subject ) AS s1 ON BOOK.BOOK_SUBJECT = s1.book_subject
10     ORDER BY
11         BOOK_TITLE;
12
```

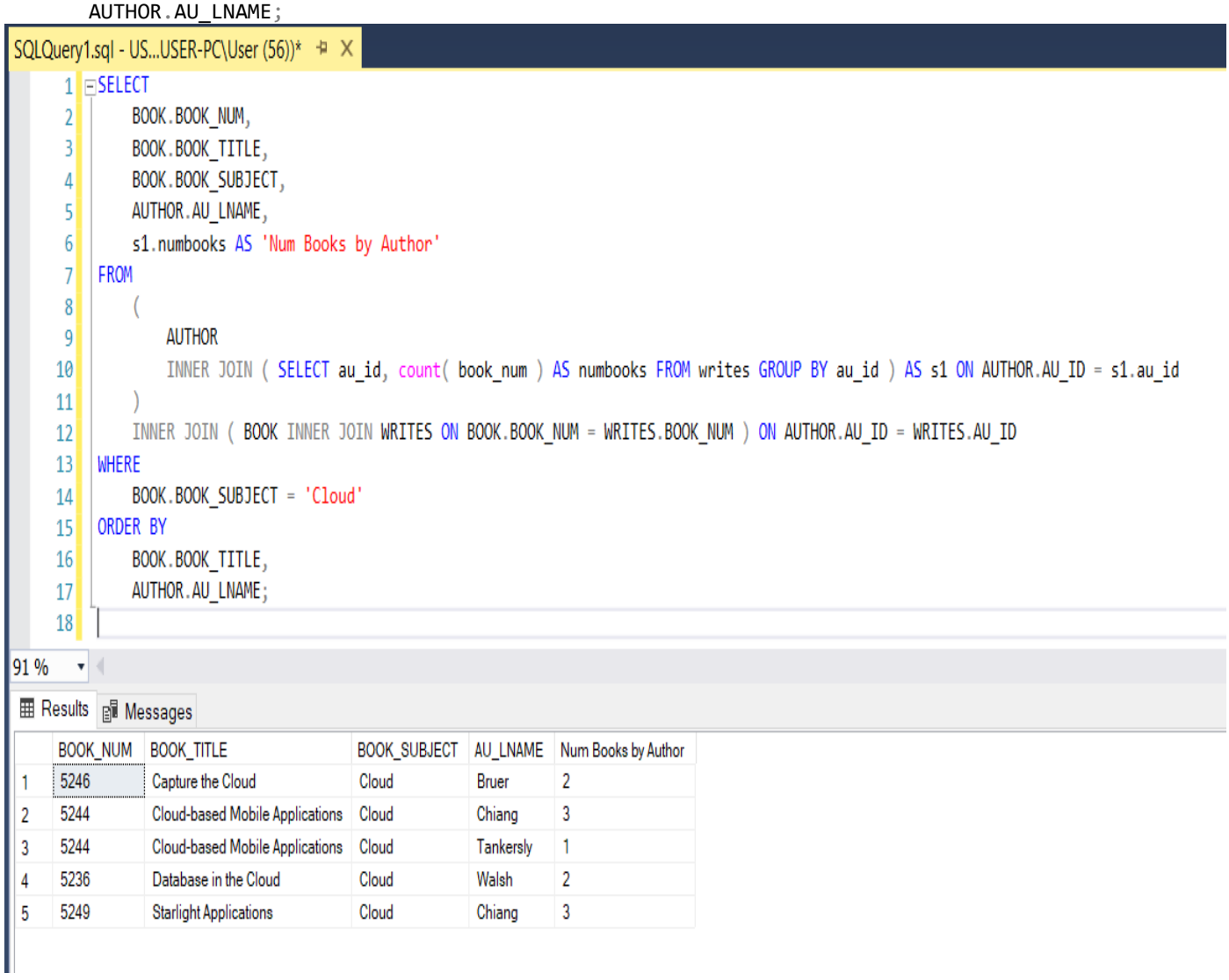
91 %

Results | Messages

	BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT	AVGCOST	DIFFERENCE
1	5235	Beginner's Guide to JAVA	Programming	66.620000	-6.670000
2	5252	Beyond the Database Veil	Database	84.950000	-15.000000
3	5242	C# in Middleware Deployment	Middleware	89.950000	-30.000000
4	5246	Capture the Cloud	Cloud	72.450000	-2.500000
5	5244	Cloud-based Mobile Applications	Cloud	72.450000	-2.500000
6	5254	Coding Style for Maintenance	Programming	66.620000	-16.670000
7	5238	Conceptual Programming	Programming	66.620000	-6.670000
8	5236	Database in the Cloud	Cloud	72.450000	7.500000
9	5243	DATABASES in Theory	Database	84.950000	45.000000
10	5240	iOS Programming	Programming	66.620000	13.330000
11	5239	J++ in Mobile Apps	Programming	66.620000	-16.670000
12	5241	JAVA First Steps	Programming	66.620000	-16.670000
13	5237	Mastering the database environment	Database	84.950000	5.000000
14	5250	Reengineering the Middle Tier	Middleware	89.950000	0.000000
15	5247	Shining Through the Cloud: Sun Programming	Programming	66.620000	43.330000
16	5249	Starlight Applications	Cloud	72.450000	-2.500000
17	5245	The Golden Road to Platform independence	Middleware	89.950000	30.000000
18	5251	Thoughts on Revitalizing Ruby	Programming	66.620000	-6.670000
19	5253	Virtual Programming for Virtual Environments	Programming	66.620000	13.330000
20	5248	What You Always Wanted to Know About Database, B...	Database	84.950000	-35.000000

108.

```
SELECT
	BOOK.BOOK_NUM,
	BOOK.BOOK_TITLE,
	BOOK.BOOK_SUBJECT,
	AUTHOR.AU_LNAME,
	s1.numbooks AS 'Num Books by Author'
FROM
	(
		AUTHOR
		INNER JOIN ( SELECT au_id, count( book_num ) AS numbooks FROM writes GROUP
BY au_id ) AS s1 ON AUTHOR.AU_ID = s1.au_id
	)
	INNER JOIN ( BOOK INNER JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM ) ON
AUTHOR.AU_ID = WRITES.AU_ID
WHERE
	BOOK.BOOK_SUBJECT = 'Cloud'
ORDER BY
	BOOK.BOOK_TITLE,
	AUTHOR.AU_LNAME;
```



	BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT	AU_LNAME	Num Books by Author
1	5246	Capture the Cloud	Cloud	Bruer	2
2	5244	Cloud-based Mobile Applications	Cloud	Chiang	3
3	5244	Cloud-based Mobile Applications	Cloud	Tankersly	1
4	5236	Database in the Cloud	Cloud	Walsh	2
5	5249	Starlight Applications	Cloud	Chiang	3

109.

```
SELECT
        MIN( AVG.AVGCOST ) AS 'Lowest Avg Cost',
        MAX( AVG.AVGCOST ) AS 'Highest Avg Cost'
FROM
        ( SELECT book_subject, round( avg( book_cost ), 2 ) AS avgcost FROM BOOK GROUP BY
book_subject ) AS AVG;
```