Emily Wantland, Robert Burch, Nathan Moran, Scott Pettyjohn

**A close up of a clock

Description automatically generated**Prof. Karimi

CIS 310-01

27 April 2020

**PART I**

**A screenshot of a social media post

Description automatically generated**

**102.**

/\*CIS 310-01 Emily Wantland\*/

SELECT

PATRON.PAT\_ID,

PATRON.PAT\_LNAME,

COUNT( CHECK\_NUM ) AS 'NUM CHECKOUTS',

CHOSEN.NUM AS 'NUM DIFFERENT BOOKS'

FROM

(

SELECT

PAT\_ID,

COUNT( BOOK\_NUM ) AS NUM

FROM

(

SELECT DISTINCT

PAT\_ID,

BOOK\_NUM

FROM

CHECKOUT

)

AS CHOSEN2

GROUP BY

PAT\_ID

)

AS CHOSEN

INNER JOIN

(

PATRON

INNER JOIN

CHECKOUT

ON PATRON.PAT\_ID = CHECKOUT.PAT\_ID

)

ON CHOSEN.PAT\_ID = PATRON.PAT\_ID

GROUP BY

PATRON.PAT\_ID,

PATRON.PAT\_LNAME,

CHOSEN.NUM

HAVING

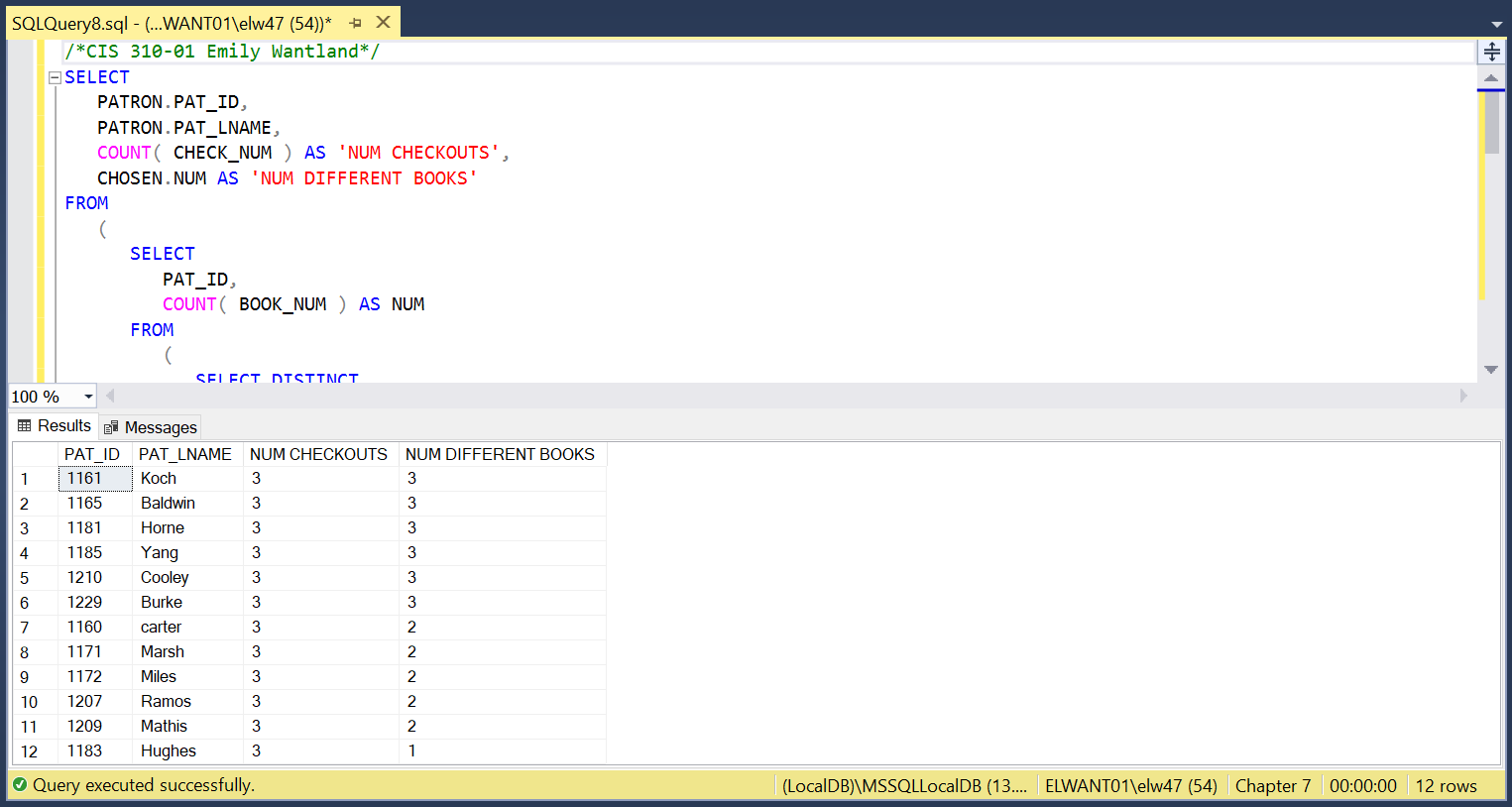
COUNT( CHECK\_NUM ) >= 3

ORDER BY

'NUM DIFFERENT BOOKS' DESC,

"NUM CHECKOUTS" DESC,

PATRON.PAT\_ID ASC;



**103.**

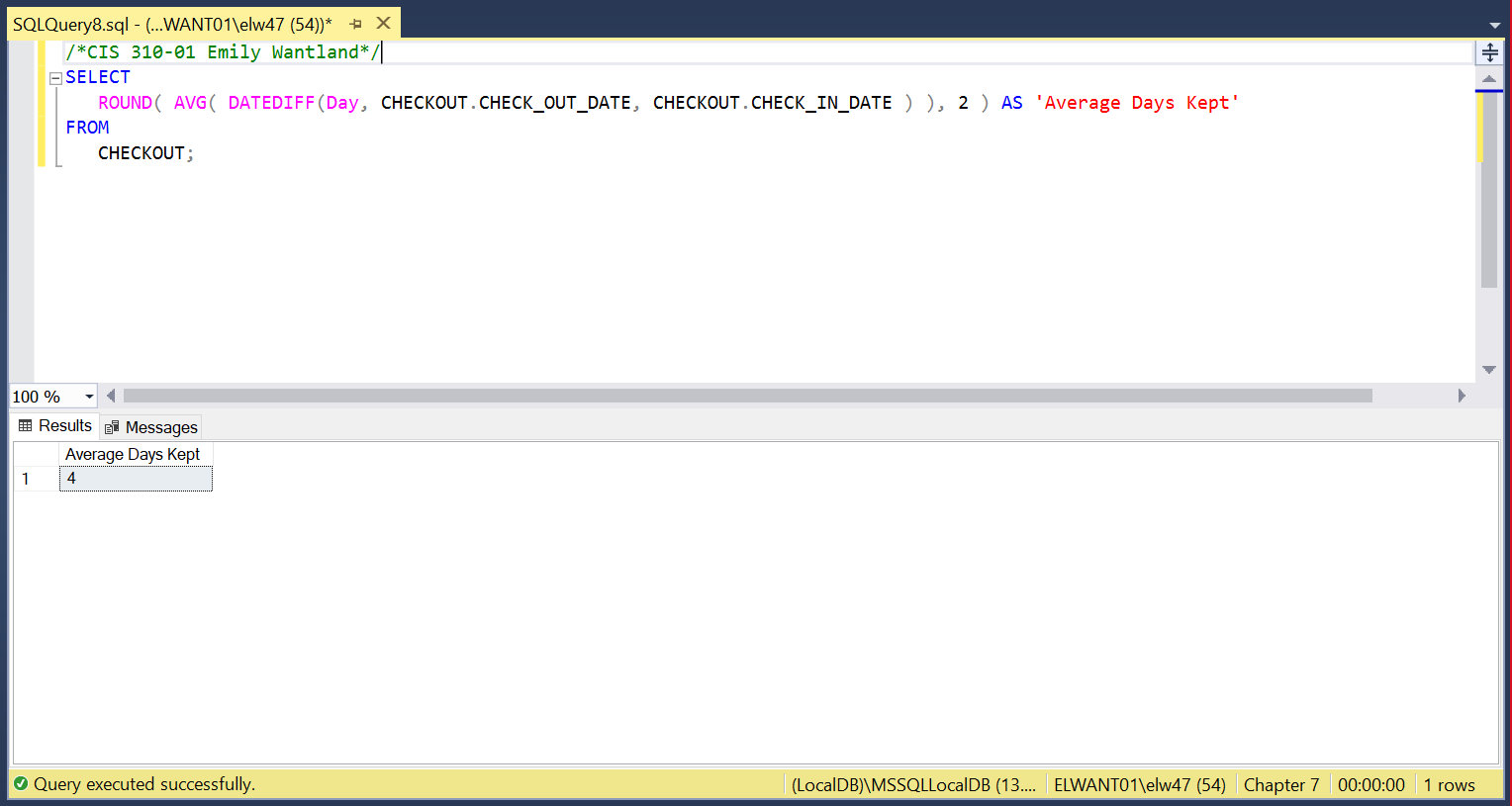
/\*CIS 310-01 Emily Wantland\*/

SELECT

ROUND( AVG( DATEDIFF(Day, CHECKOUT.CHECK\_OUT\_DATE, CHECKOUT.CHECK\_IN\_DATE ) ), 2 ) AS 'Average Days Kept'

FROM

CHECKOUT;



**104.**

/\*CIS 310-01 Emily Wantland\*/

SELECT

CHECKOUT.PAT\_ID,

AVG( DATEDIFF(Day, CHECKOUT.CHECK\_OUT\_DATE, CHECKOUT.CHECK\_IN\_DATE )) AS 'Average Days Kept'

FROM

CHECKOUT

GROUP BY

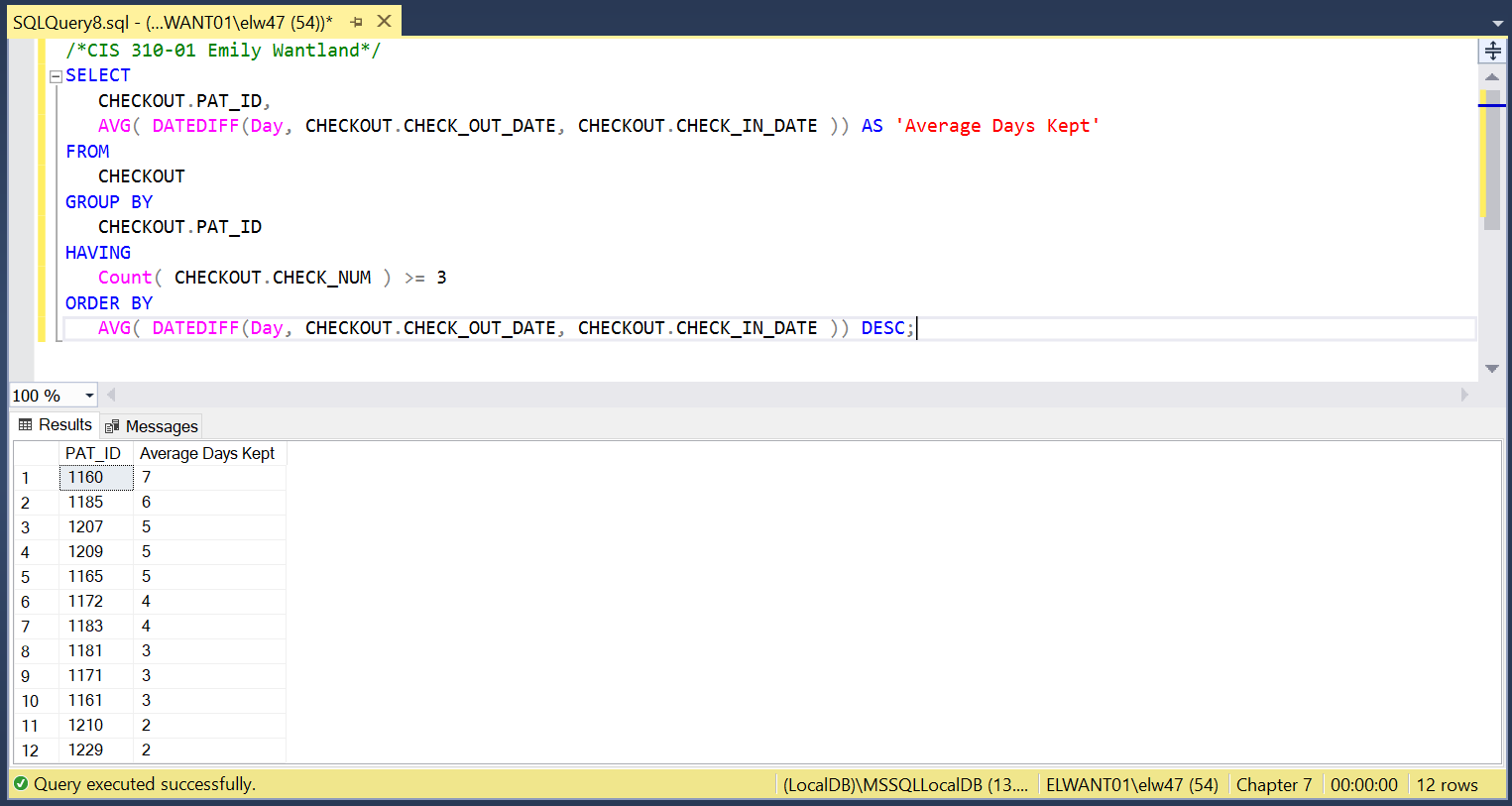
CHECKOUT.PAT\_ID

HAVING

Count( CHECKOUT.CHECK\_NUM ) >= 3

ORDER BY

AVG( DATEDIFF(Day, CHECKOUT.CHECK\_OUT\_DATE, CHECKOUT.CHECK\_IN\_DATE )) DESC;



**105.**

/\*CIS 310-01 Emily Wantland\*/

SELECT

BOOK.BOOK\_NUM,

BOOK.BOOK\_TITLE,

BOOK.BOOK\_COST

FROM

BOOK

WHERE

BOOK.BOOK\_COST =

(

SELECT

MIN( BOOK\_COST )

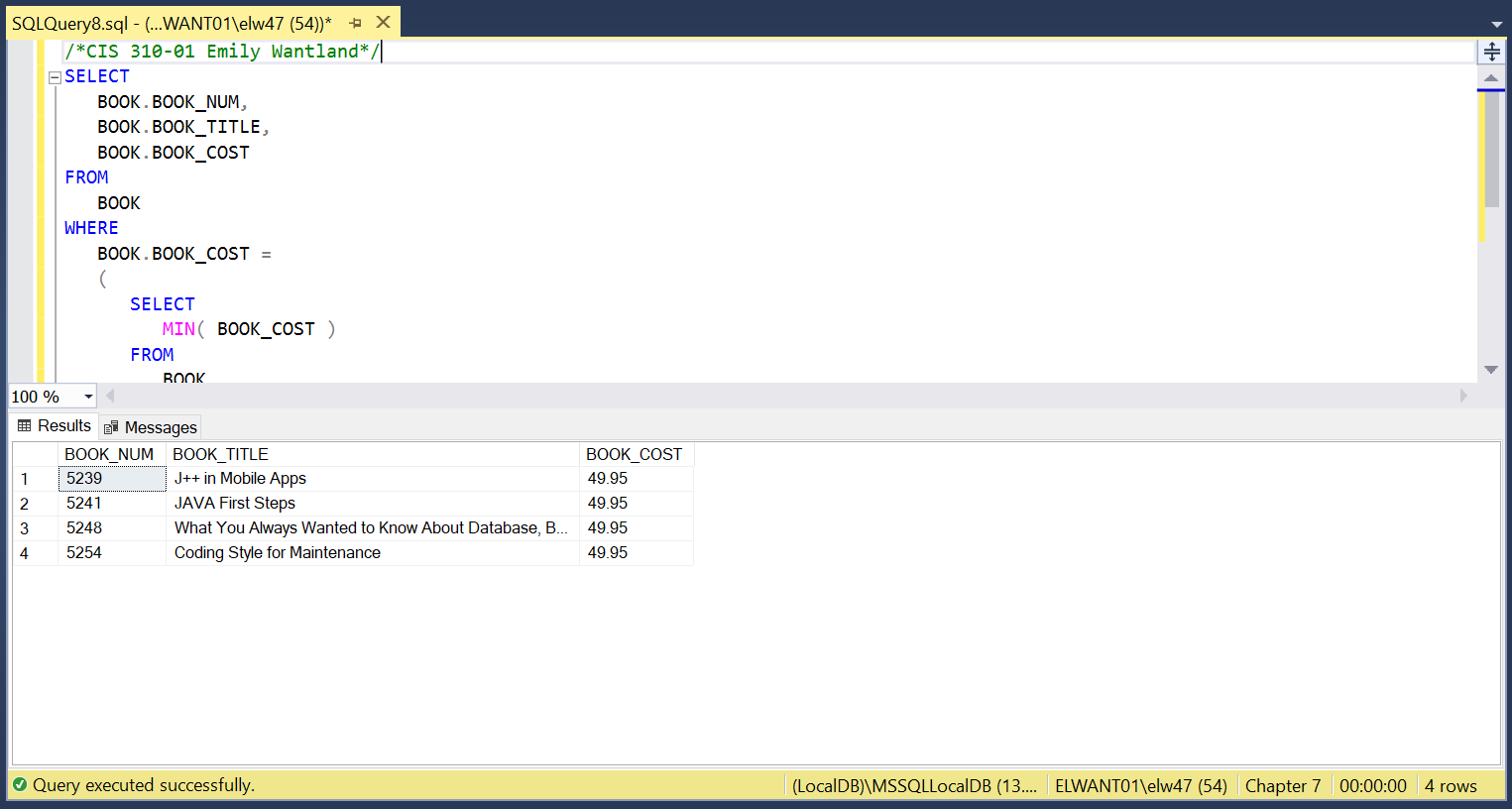
FROM

BOOK

)

ORDER BY

BOOK.BOOK\_NUM;



**PART II**

**1.**

/\*CIS 310-01 Emily Wantland\*/

CREATE TABLE EMP\_1 (

EMP\_NUM CHAR(3) NOT NULL,

EMP\_LNAME VARCHAR(15) NOT NULL,

EMP\_FNAME VARCHAR(15) NOT NULL,

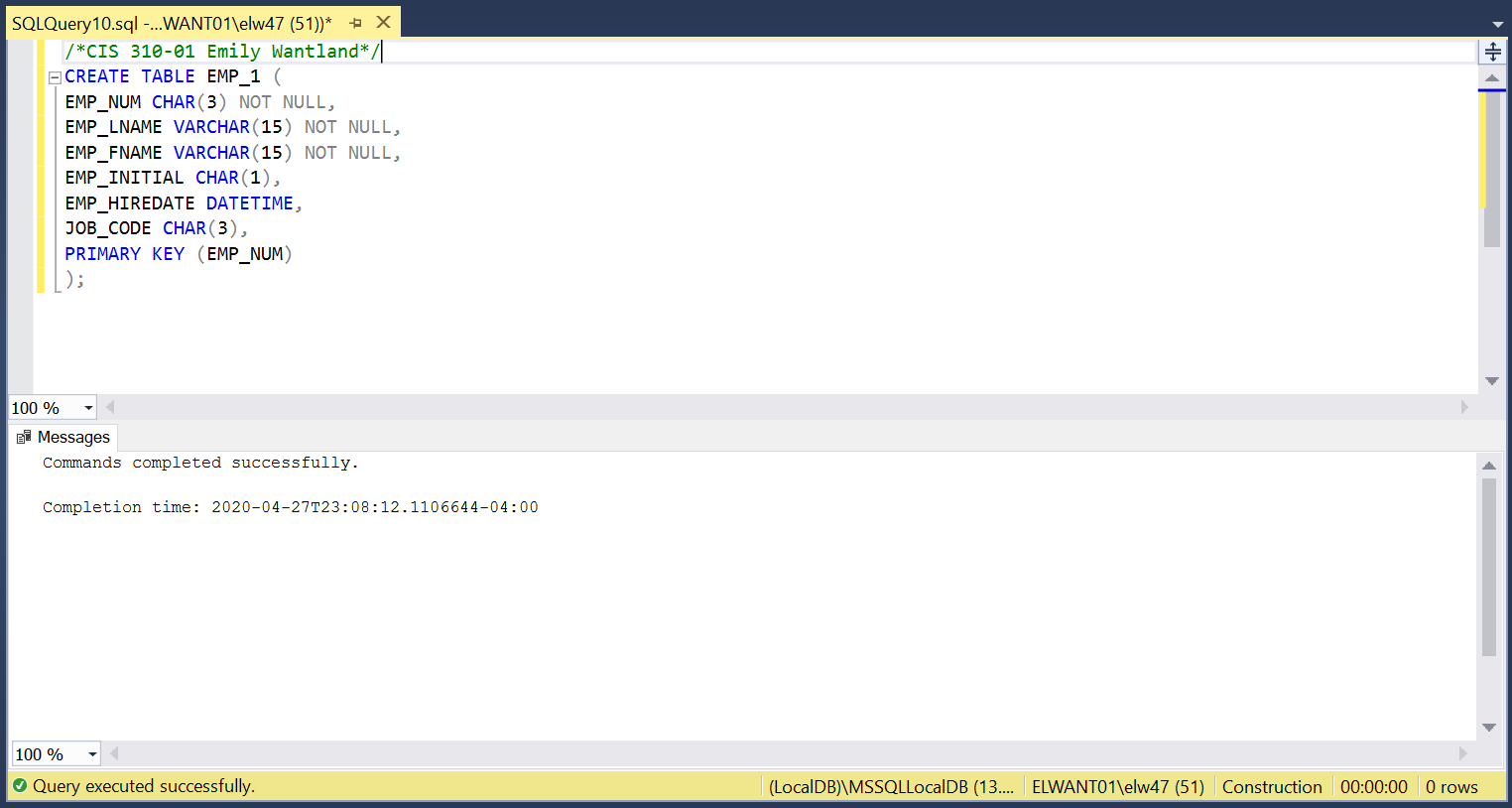
EMP\_INITIAL CHAR(1),

EMP\_HIREDATE DATETIME,

JOB\_CODE CHAR(3),

PRIMARY KEY (EMP\_NUM)

);



**2.**

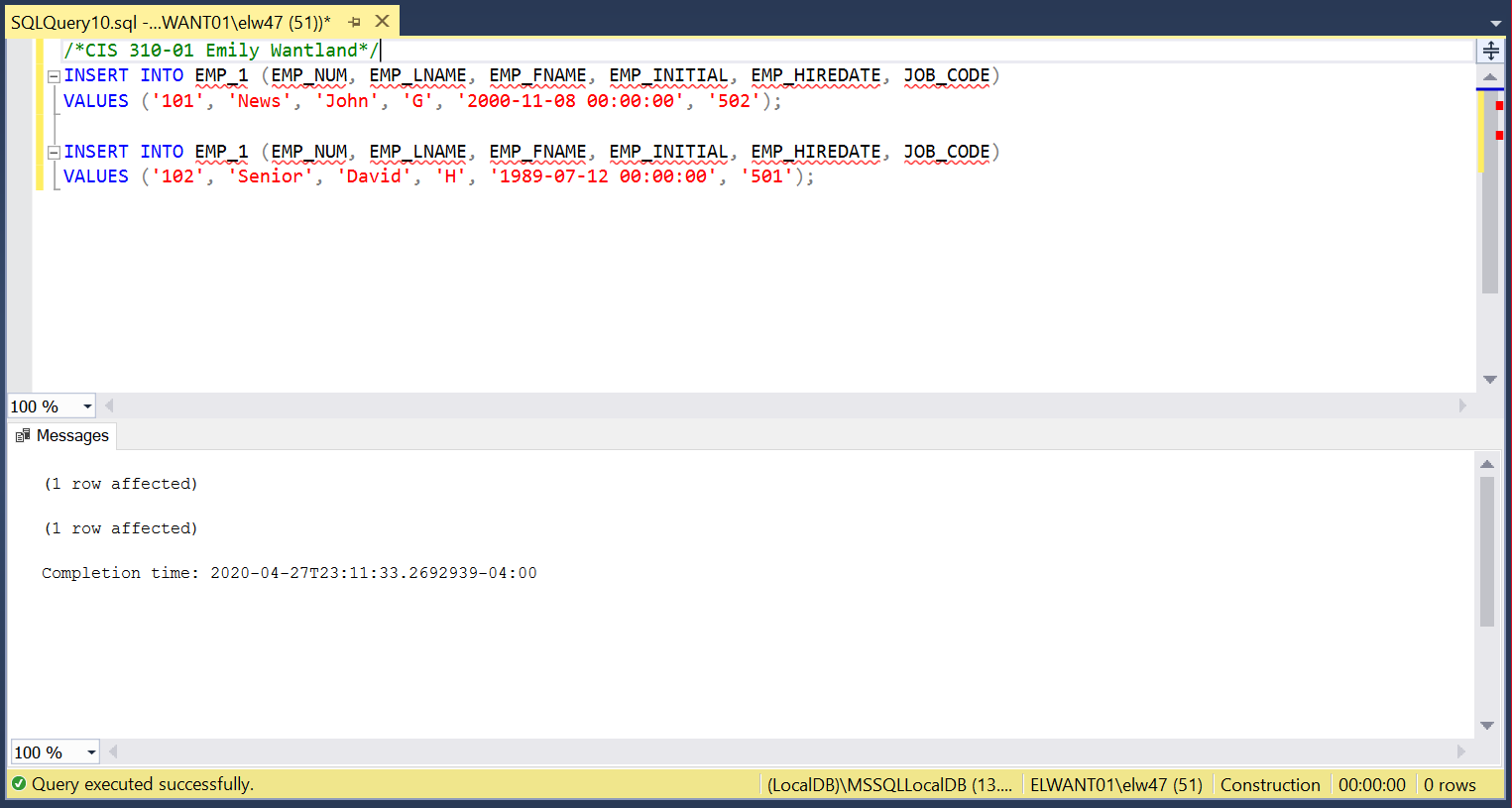
/\*CIS 310-01 Emily Wantland\*/

INSERT INTO EMP\_1 (EMP\_NUM, EMP\_LNAME, EMP\_FNAME, EMP\_INITIAL, EMP\_HIREDATE, JOB\_CODE)

VALUES ('101', 'News', 'John', 'G', '2000-11-08 00:00:00', '502');

INSERT INTO EMP\_1 (EMP\_NUM, EMP\_LNAME, EMP\_FNAME, EMP\_INITIAL, EMP\_HIREDATE, JOB\_CODE)

VALUES ('102', 'Senior', 'David', 'H', '1989-07-12 00:00:00', '501');

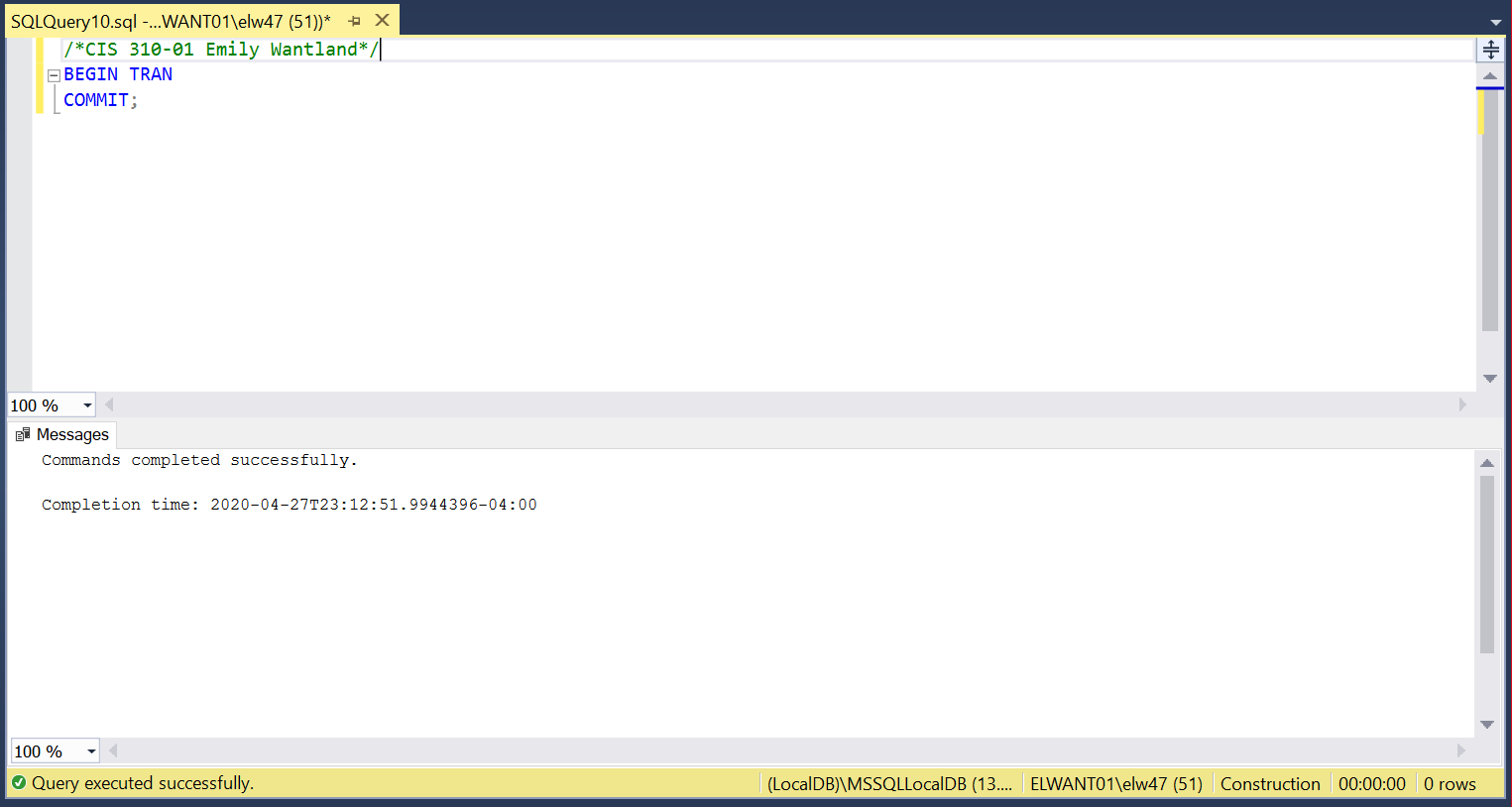


**4.**

/\*CIS 310-01 Emily Wantland\*/

BEGIN TRAN

COMMIT;



**5**.

/\*CIS 310-01 Emily Wantland\*/

UPDATE

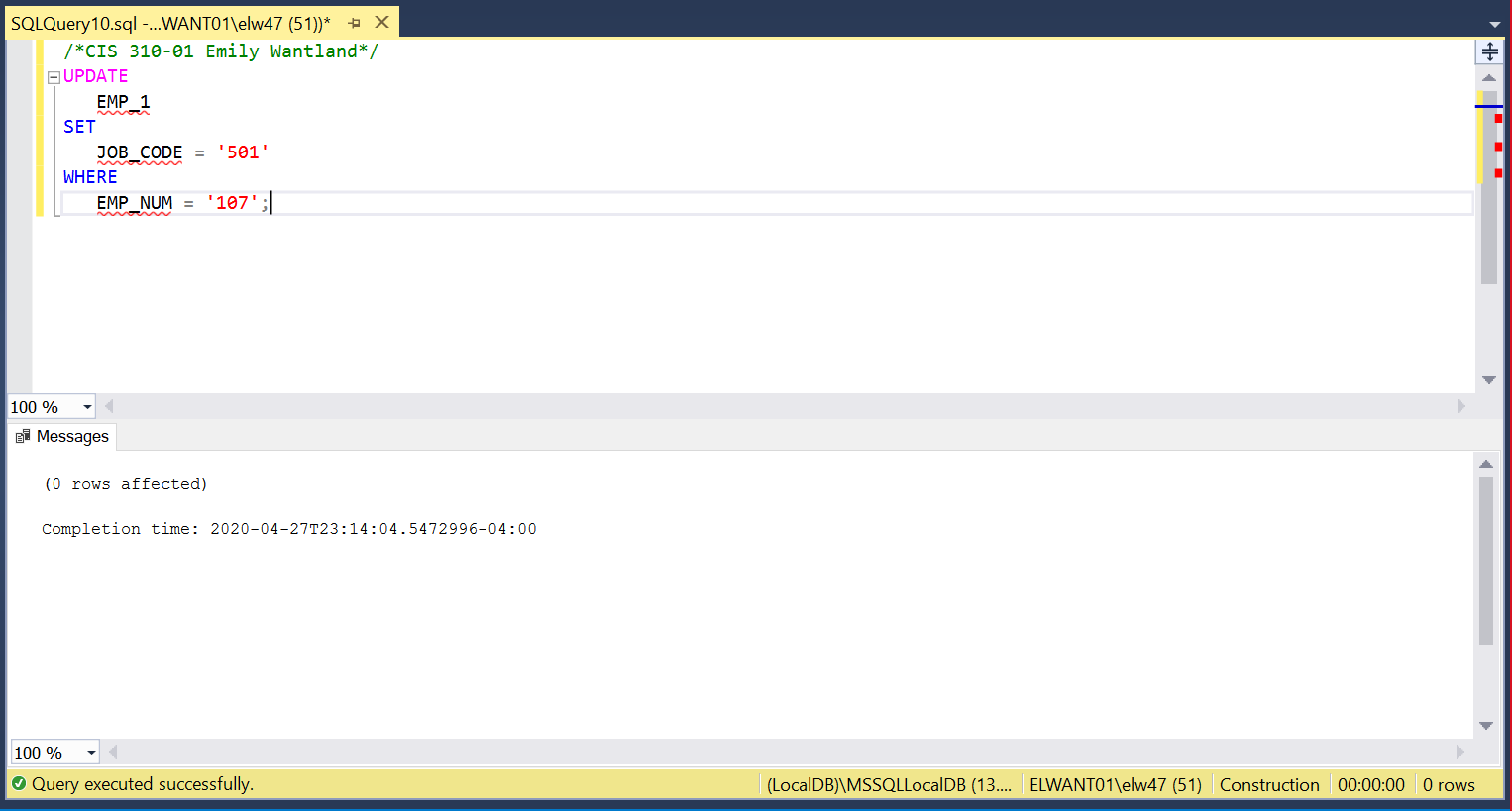
EMP\_1

SET

JOB\_CODE = '501'

WHERE

EMP\_NUM = '107';



**6.**

/\*CIS 310-01 Emily Wantland\*/

DELETE

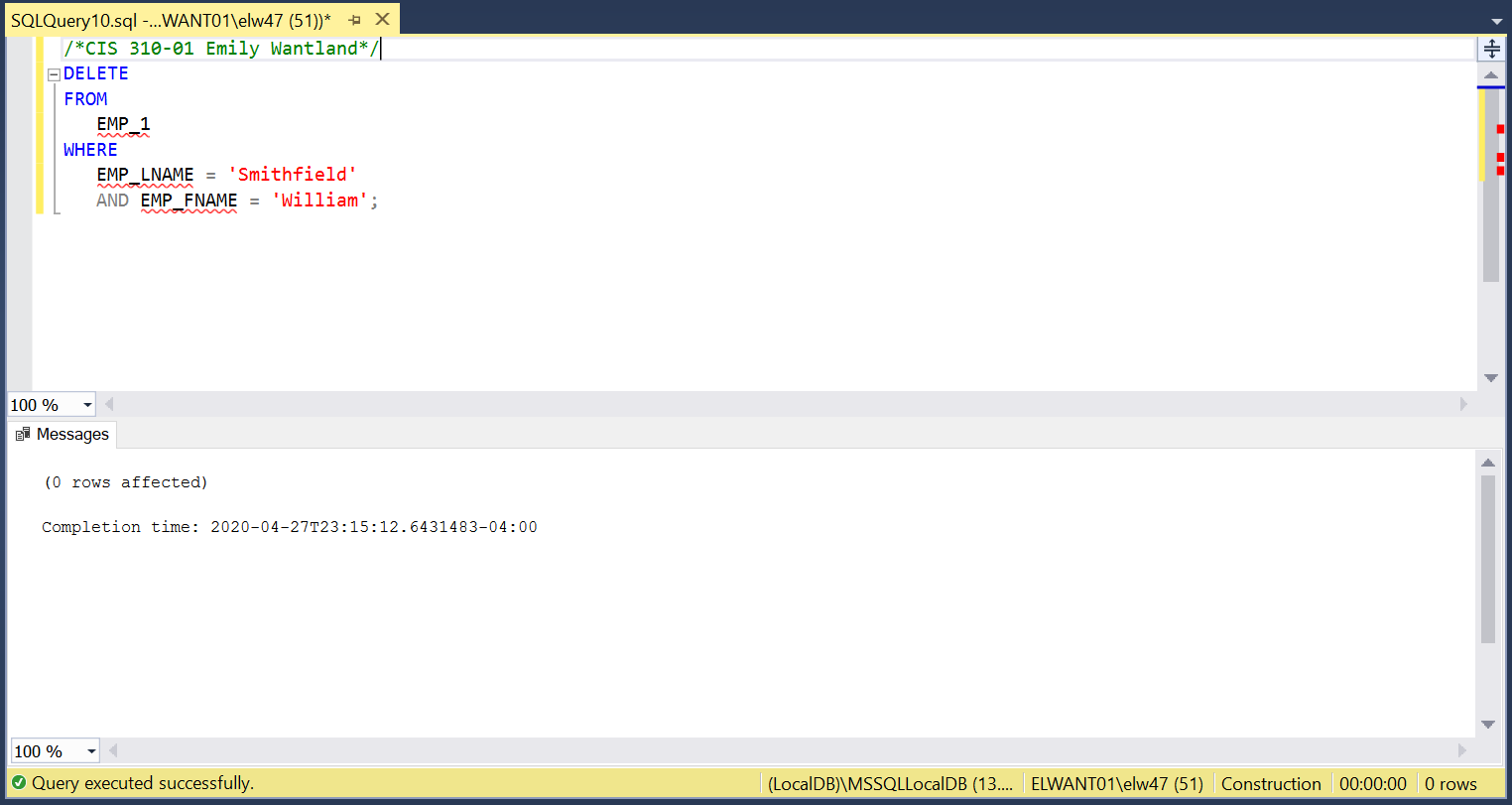
FROM

EMP\_1

WHERE

EMP\_LNAME = 'Smithfield'

AND EMP\_FNAME = 'William';



**7.**

/\*CIS 310-01 Emily Wantland\*/

CREATE TABLE EMP\_2 (

EMP\_NUM CHAR(3) NOT NULL,

EMP\_LNAME VARCHAR(15) NOT NULL,

EMP\_FNAME VARCHAR(15) NOT NULL,

EMP\_INITIAL CHAR(1),

EMP\_HIREDATE DATETIME,

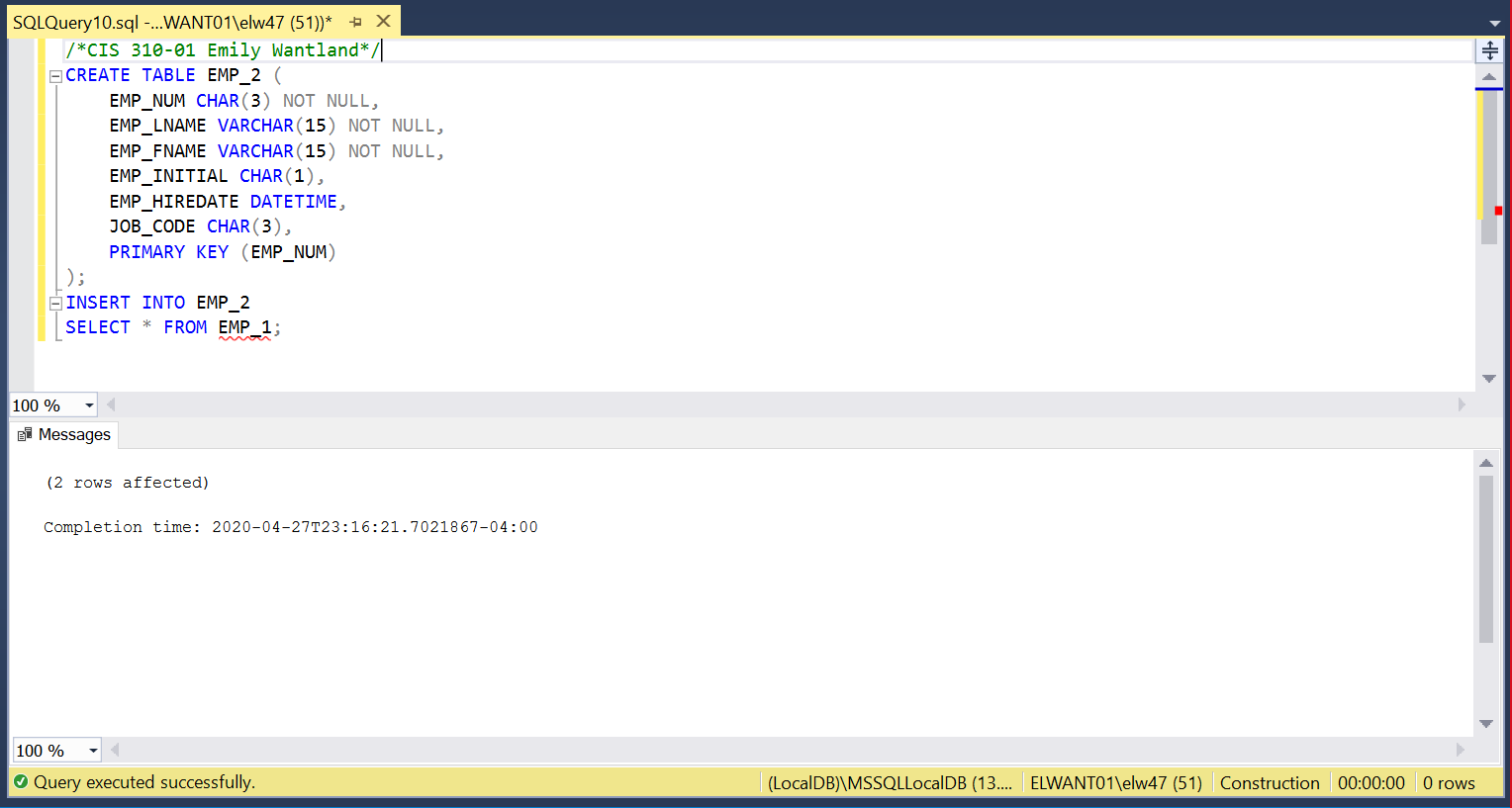
JOB\_CODE CHAR(3),

PRIMARY KEY (EMP\_NUM)

);

INSERT INTO EMP\_2

SELECT \* FROM EMP\_1;



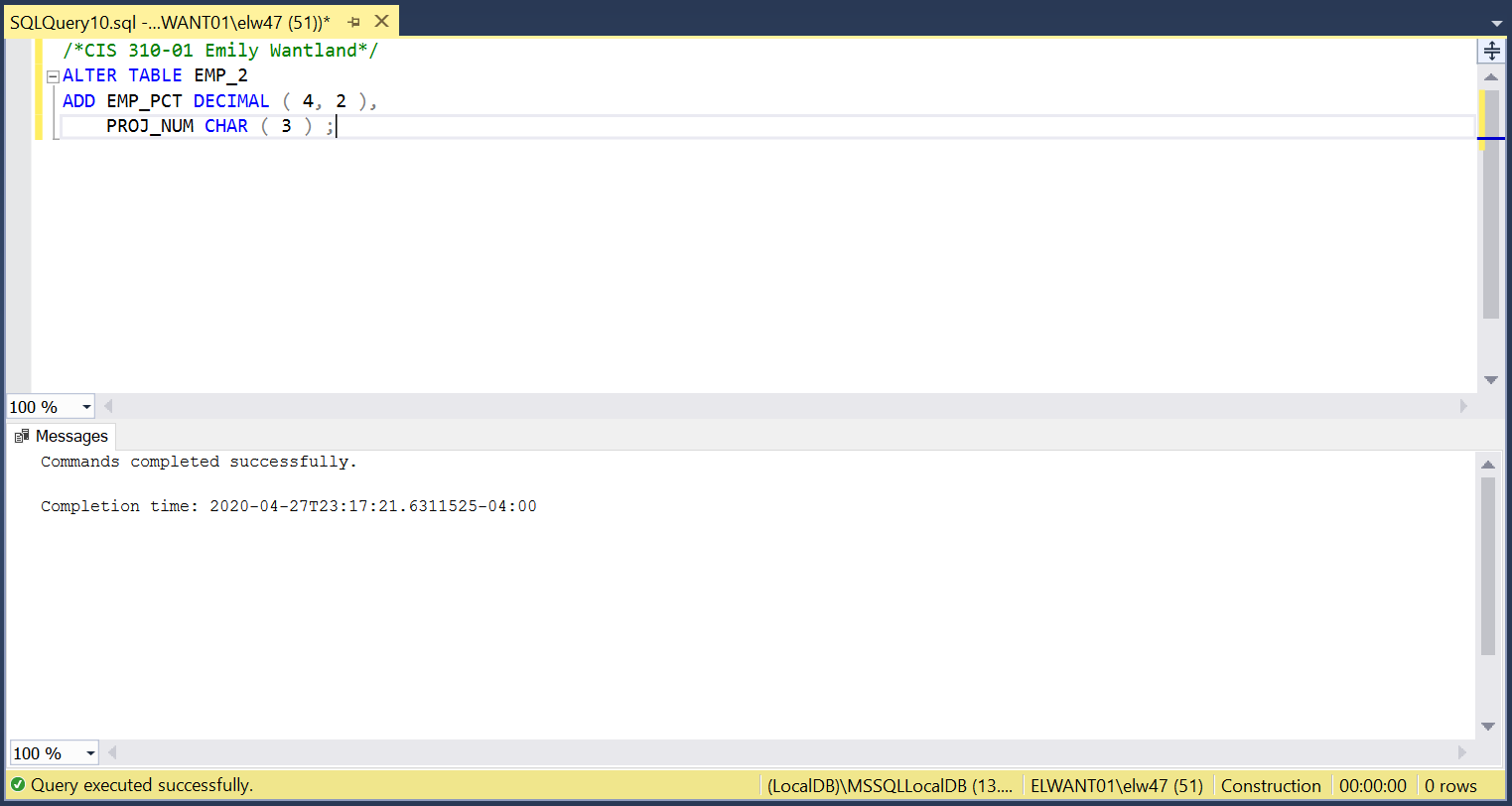
**8.**

/\*CIS 310-01 Emily Wantland\*/

ALTER TABLE EMP\_2

ADD EMP\_PCT DECIMAL ( 4, 2 ),

PROJ\_NUM CHAR ( 3 ) ;



**9.**

/\*CIS 310-01 Emily Wantland\*/

UPDATE

EMP\_2

SET

EMP\_PCT = '3.85'

WHERE

EMP\_NUM = '103';

