/\* add middle initial to candidate table and interview table, this field is optional hence the "not null" condition

is not mentioned \*/

alter table Candidate

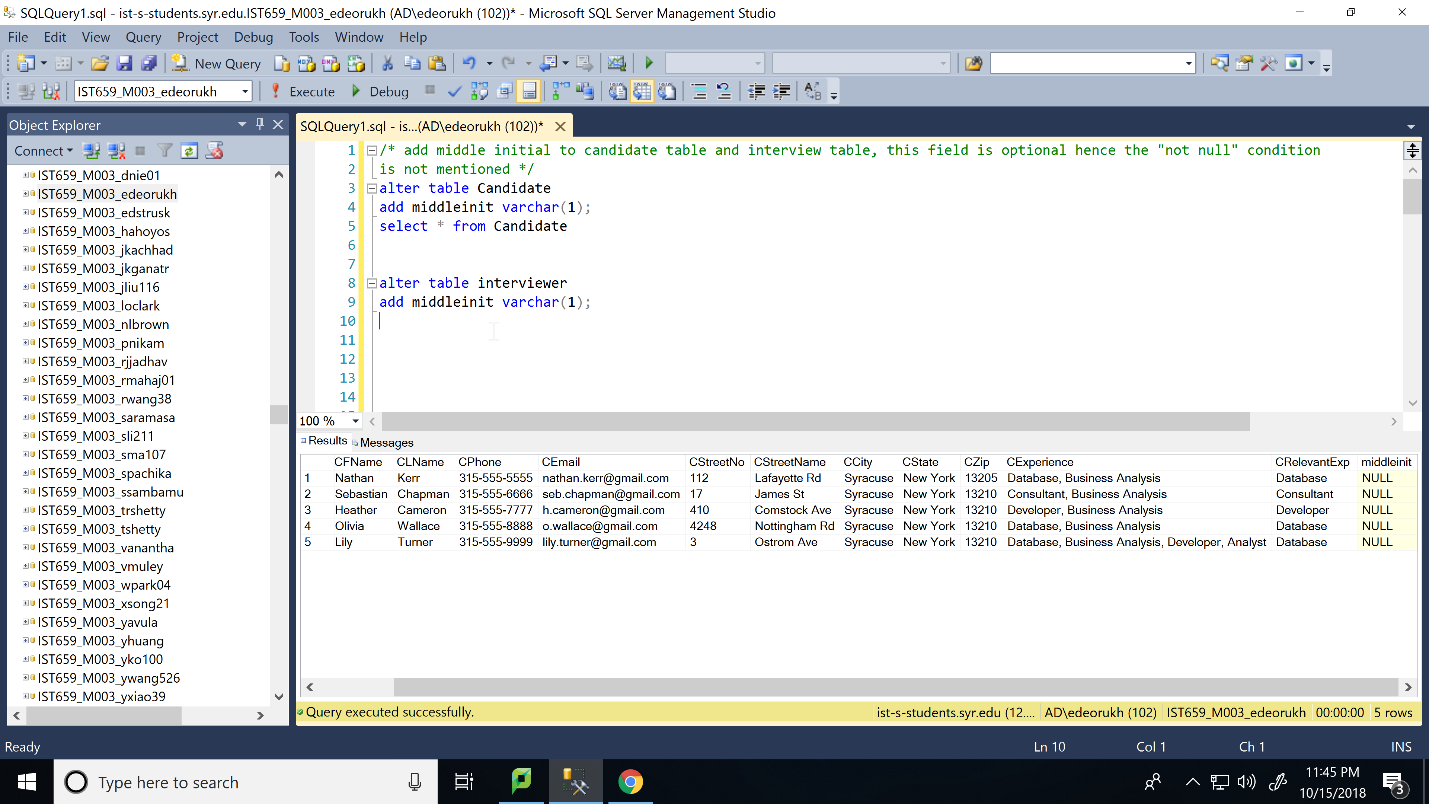
add middleinit varchar(1);

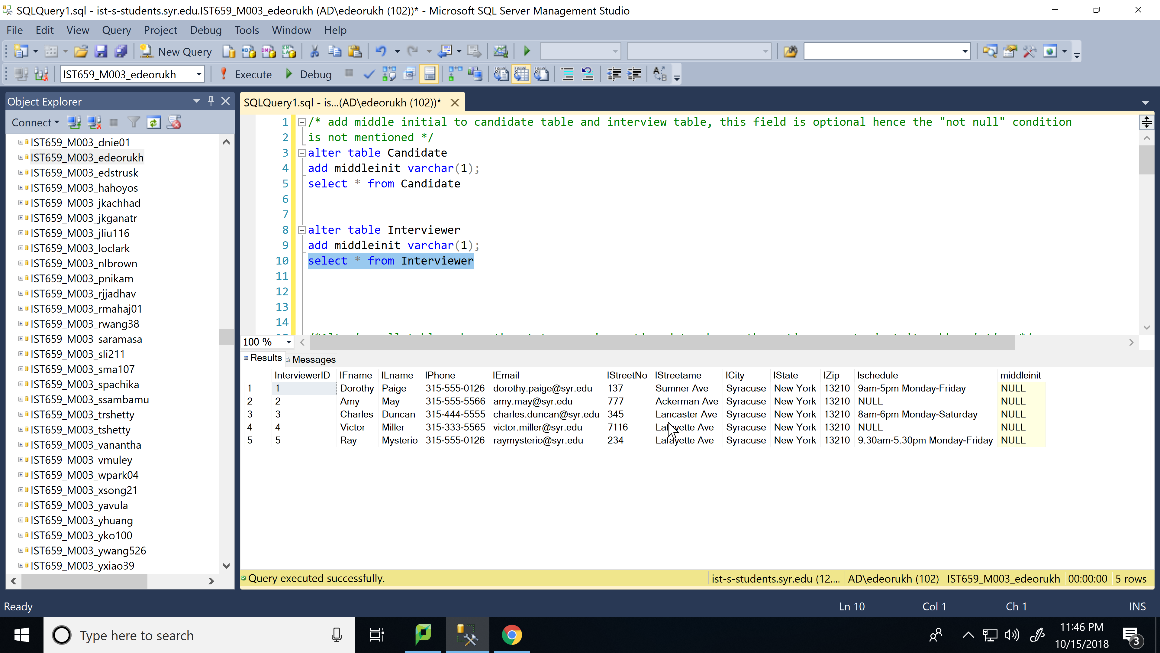
select \* from Candidate

alter table Interviewer

add middleinit varchar(1);

select \* from Interviewer





/\*Altering tables to change the state name to its abbreviation\*/

/\* Data needs to be deleted before the columns can be modified \*/

alter table Candidate drop column CState ;

alter table Candidate add CState varchar(2);

/\* adding data after making the column \*/

update Candidate set CState='NY' where CandidateID=1;

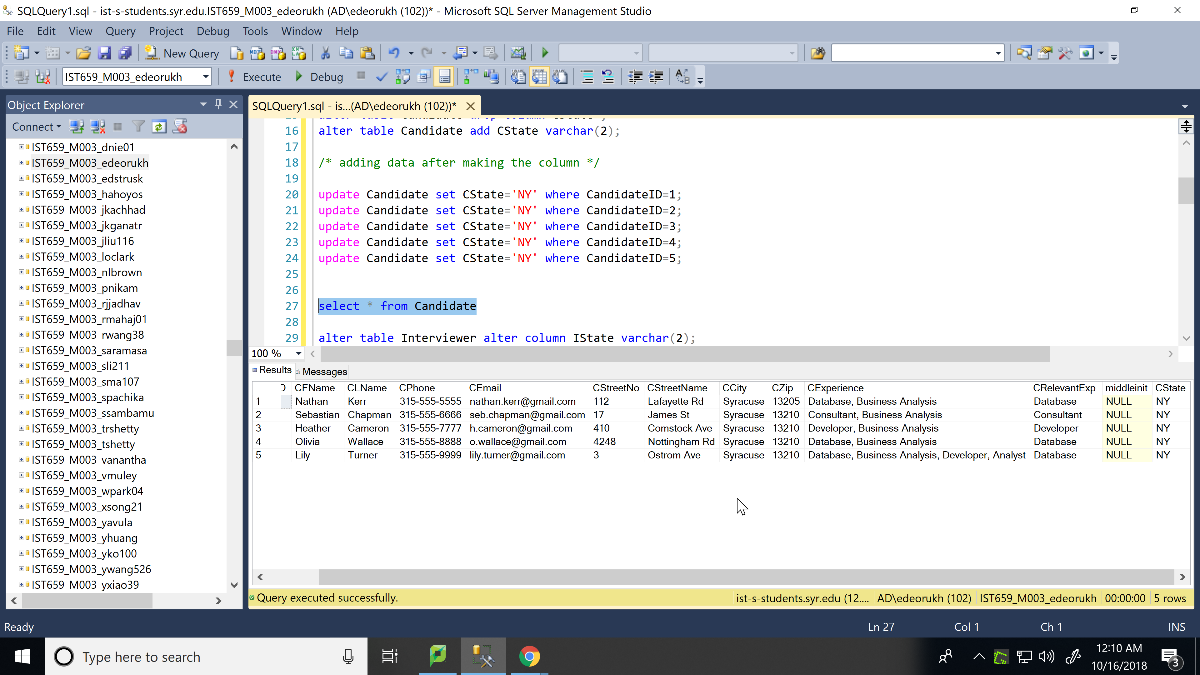
update Candidate set CState='NY' where CandidateID=2;

update Candidate set CState='NY' where CandidateID=3;

update Candidate set CState='NY' where CandidateID=4;

update Candidate set CState='NY' where CandidateID=5;

select \* from Candidate



alter table Interviewer drop column IState ;

alter table Interviewer add IState varchar(2);

/\* adding data after making the column \*/

update Interviewer set IState='NY' where InterviewerID=1;

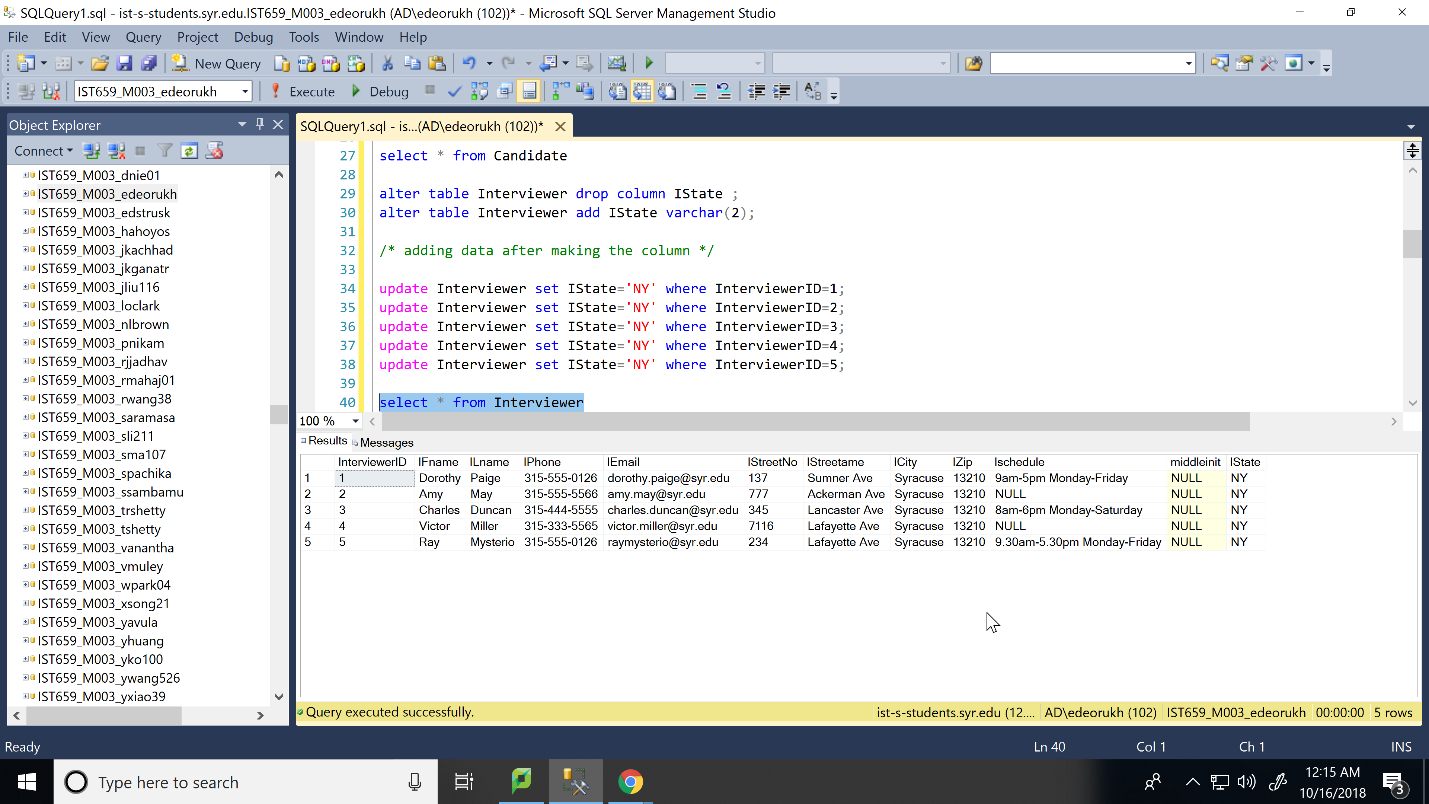
update Interviewer set IState='NY' where InterviewerID=2;

update Interviewer set IState='NY' where InterviewerID=3;

update Interviewer set IState='NY' where InterviewerID=4;

update Interviewer set IState='NY' where InterviewerID=5;

select \* from Interviewer



alter table Company drop column CoState ;

alter table Company add CoState varchar(2);

/\* adding data after making the column \*/

update Company set CoState='NY' where CompanyID=1;

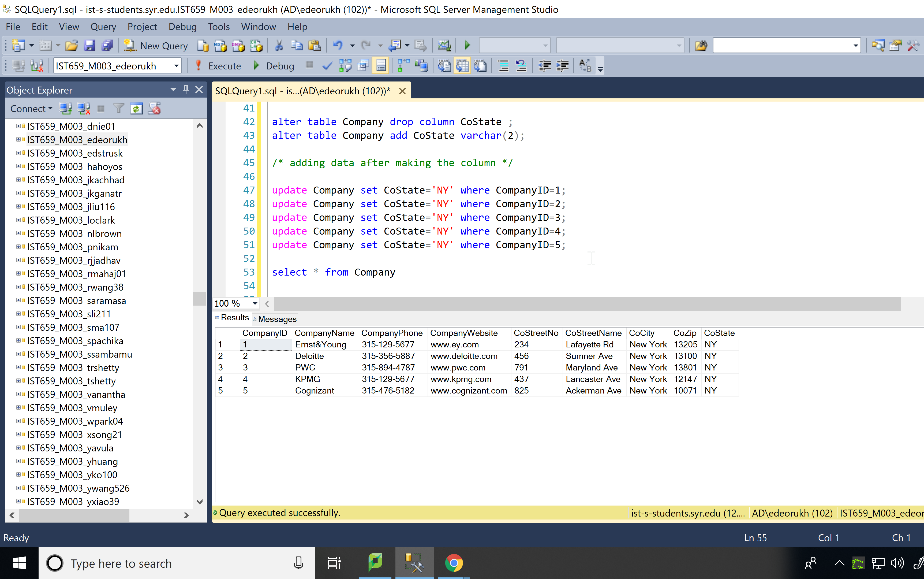
update Company set CoState='NY' where CompanyID=2;

update Company set CoState='NY' where CompanyID=3;

update Company set CoState='NY' where CompanyID=4;

update Company set CoState='NY' where CompanyID=5;

select \* from Company

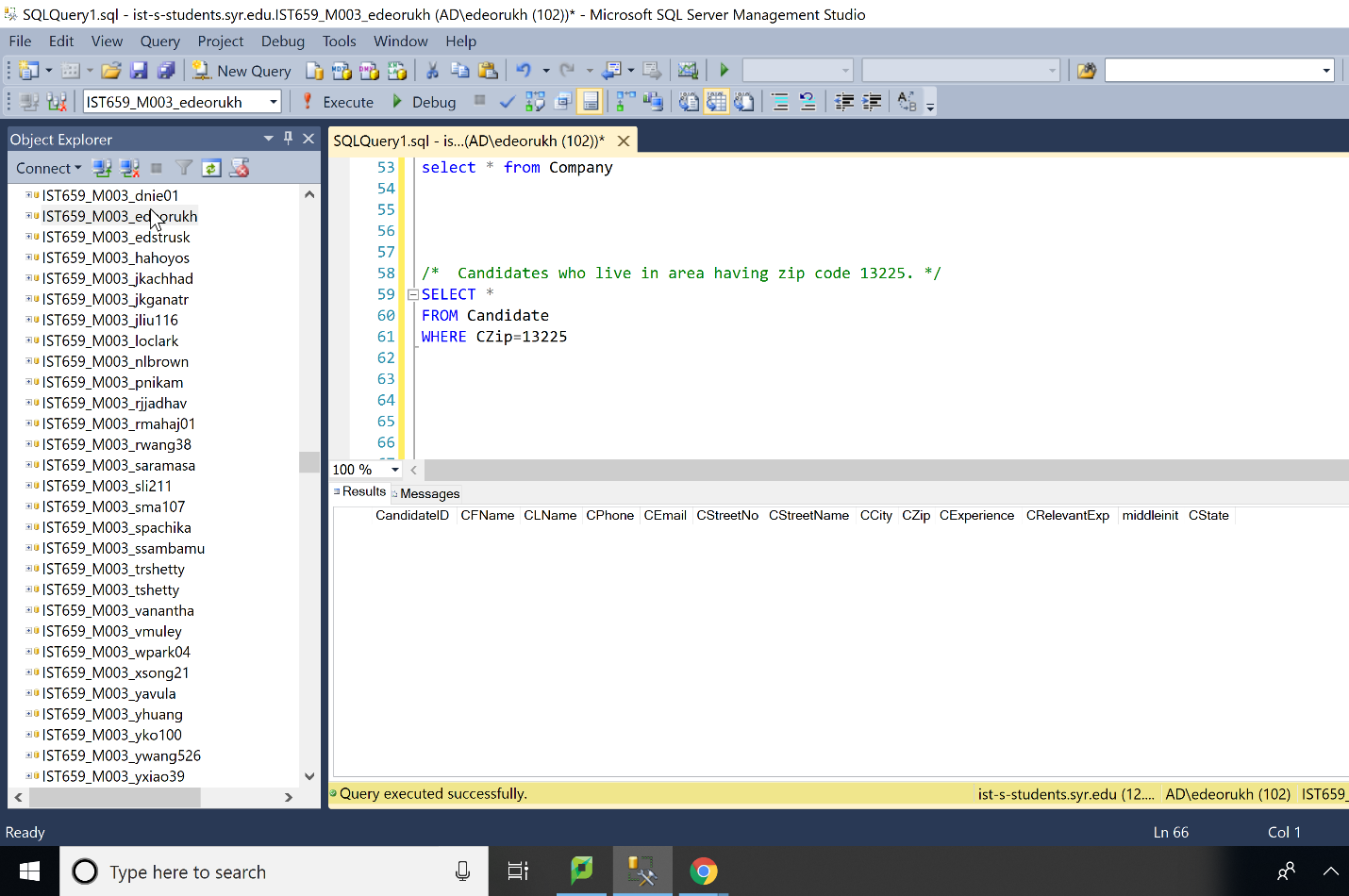


/\* Candidates who live in area having zip code 13225. \*/

SELECT \*

FROM Candidate

WHERE CZip=13225

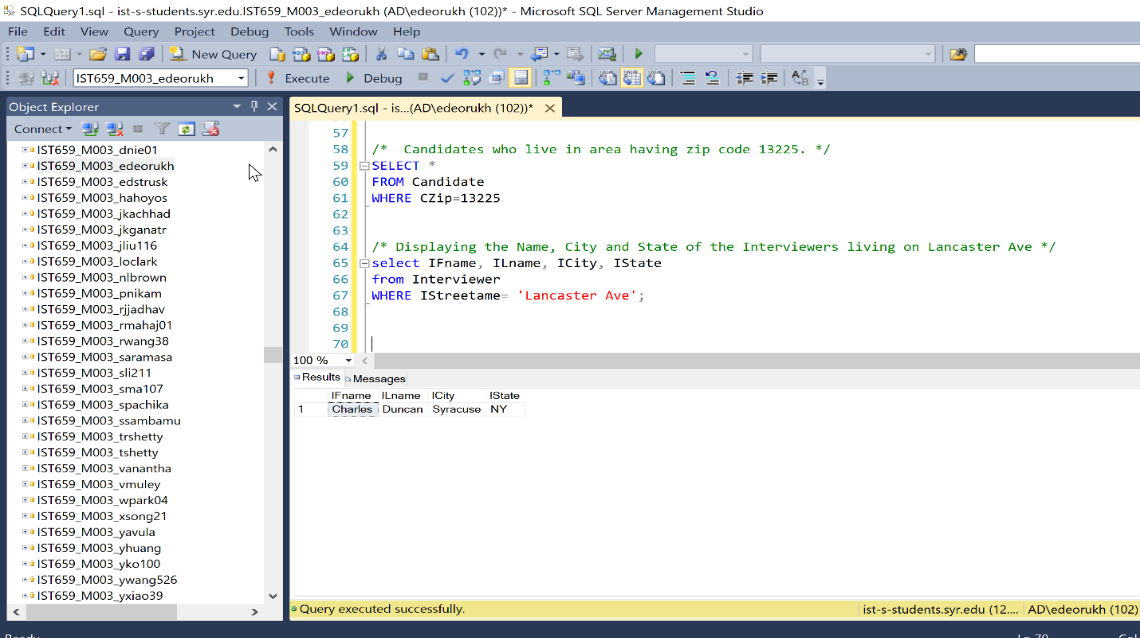


/\* Displaying the Name, City and State of the Interviewers living on Lancaster Ave \*/

select IFname, ILname, ICity, IState

from Interviewer

WHERE IStreetame= 'Lancaster Ave';



/\* change the date of Interview 1 in interview table\*/

/\* Displaying the InterviewID and the PositionID of the Interviews on that date\*/

update Interview

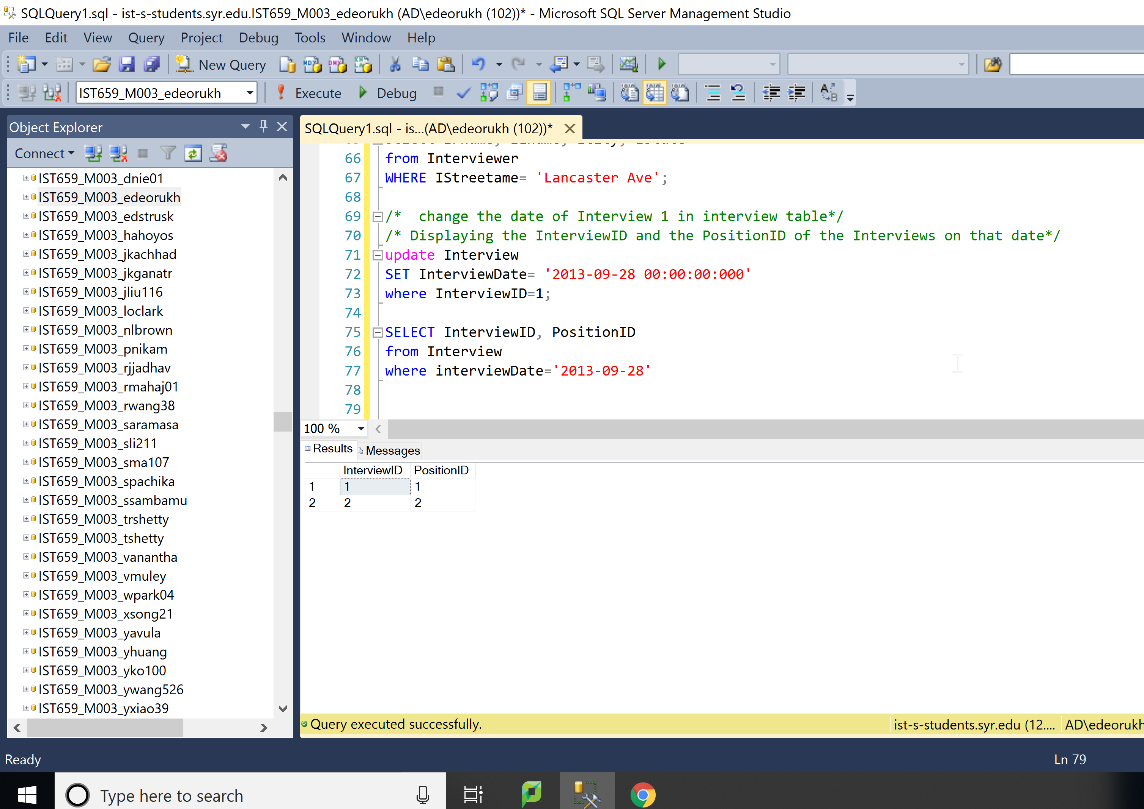
SET InterviewDate= '2013-09-28 00:00:00:000'

where InterviewID=1;

SELECT InterviewID, PositionID

from Interview

where interviewDate='2013-09-28'

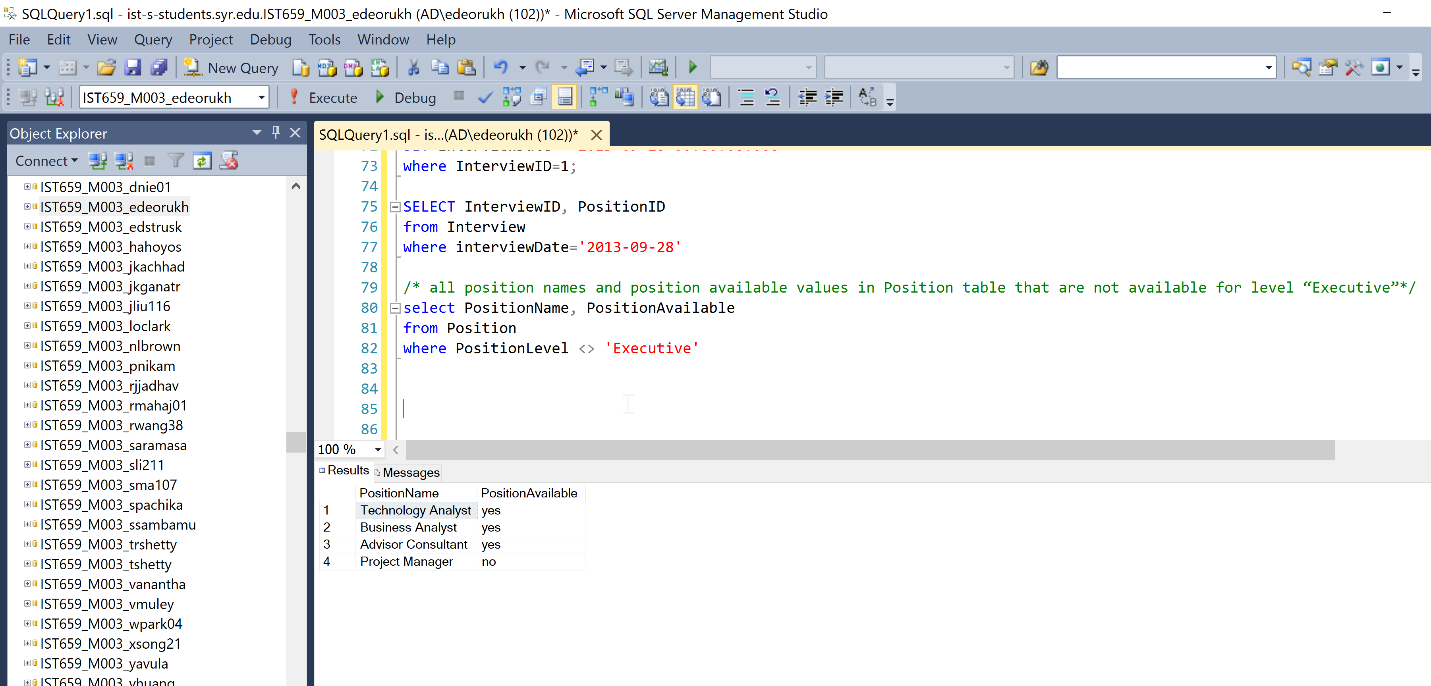


/\* all position names and position available values in Position table that are not available for level “Executive”\*/

select PositionName, PositionAvailable

from Position

where PositionLevel <> 'Executive'

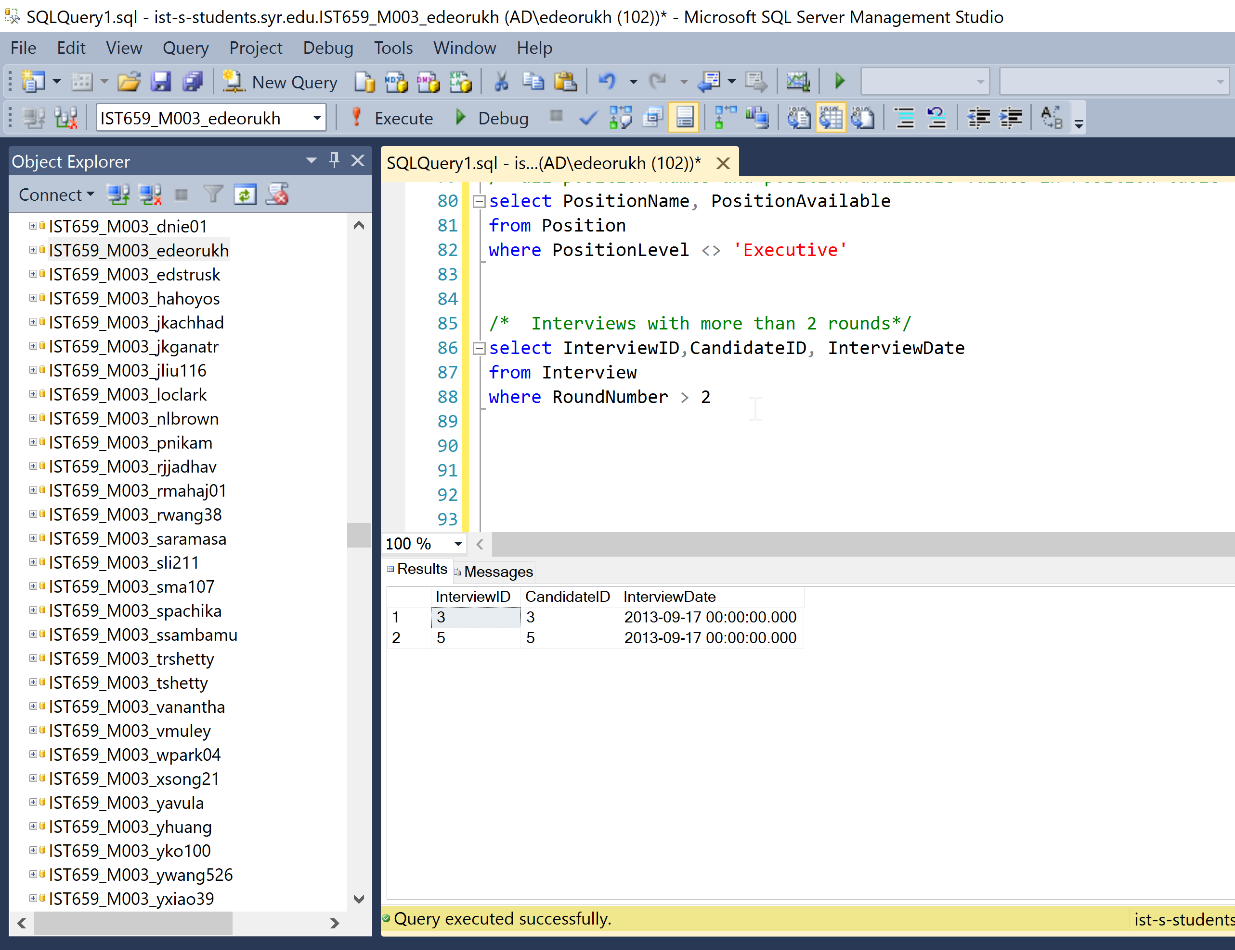


/\* Interviews with more than 2 rounds\*/

select InterviewID,CandidateID, InterviewDate

from Interview

where RoundNumber > 2



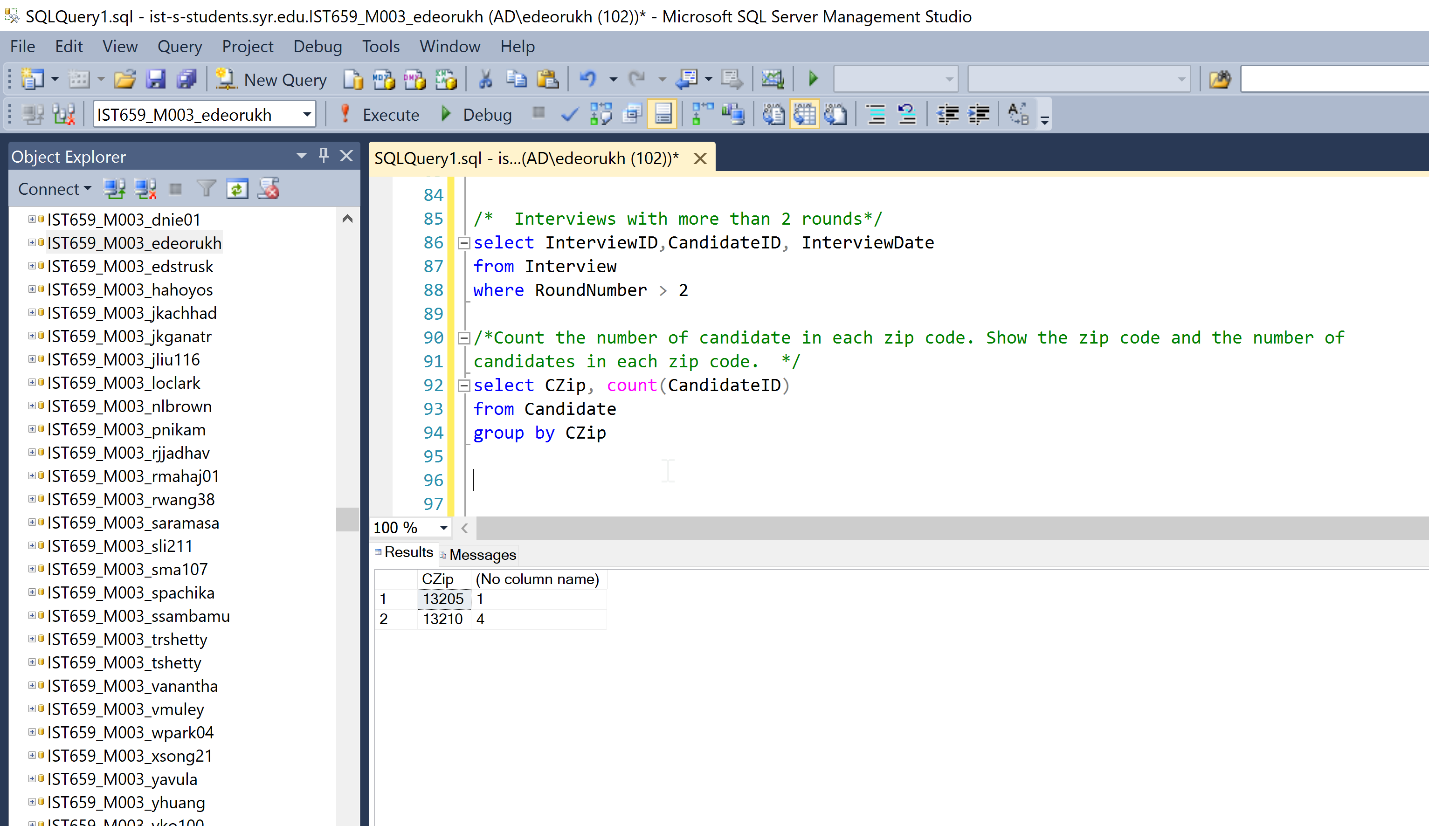
/\*Count the number of candidate in each zip code. Show the zip code and the number of

candidates in each zip code. \*/

select CZip, count(CandidateID)

from Candidate

group by CZip



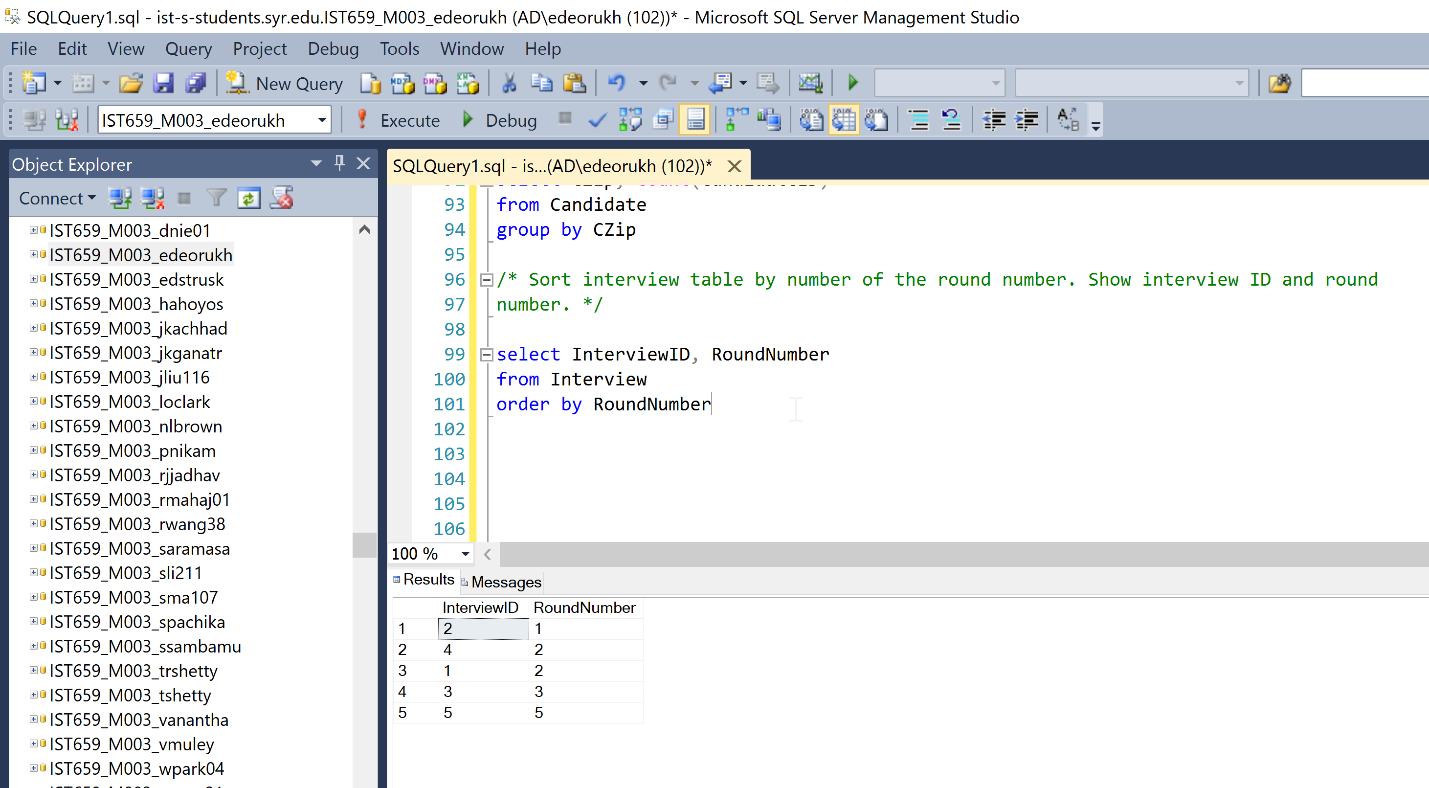
/\* Sort interview table by number of the round number. Show interview ID and round

number. \*/

select InterviewID, RoundNumber

from Interview

order by RoundNumber



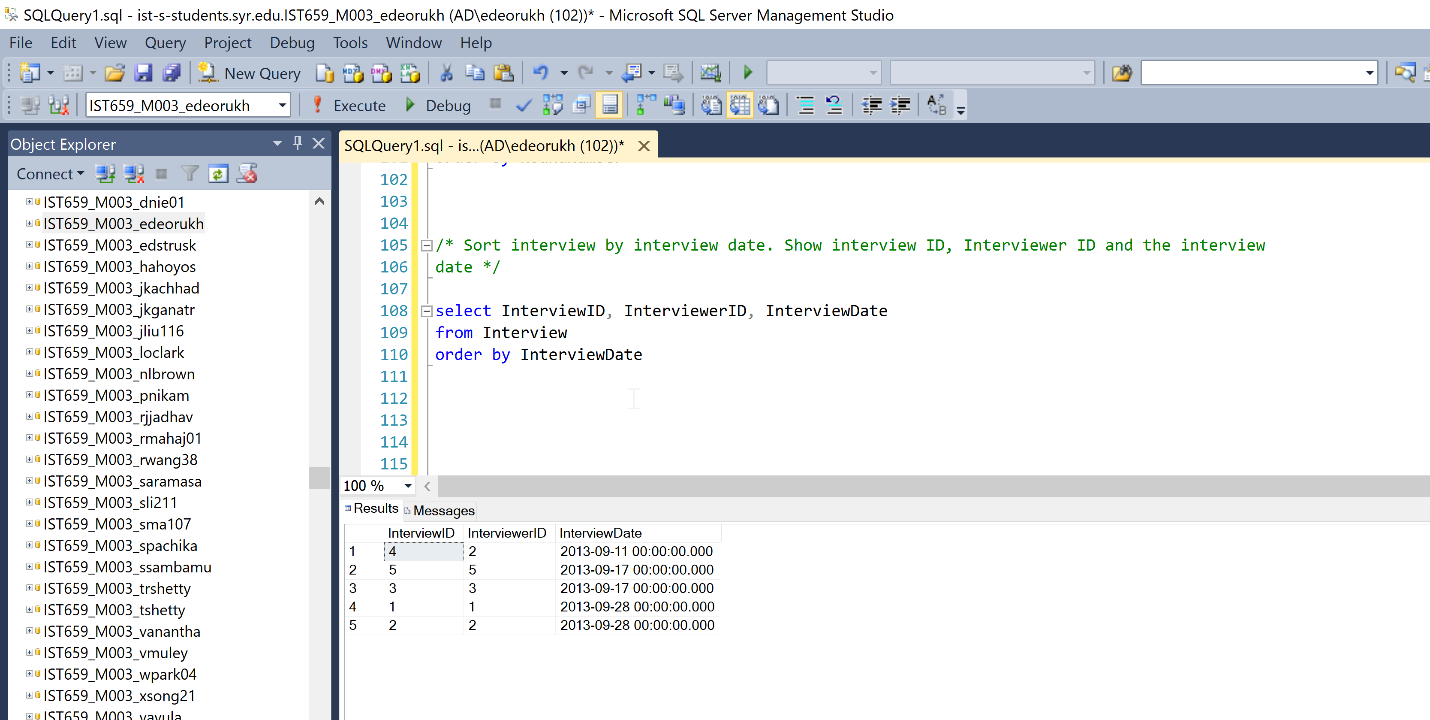
/\* Sort interview by interview date. Show interview ID, Interviewer ID and the interview

date \*/

select InterviewID, InterviewerID, InterviewDate

from Interview

order by InterviewDate



/\*For each candidate, calculate the average, min, and max round number of the interviews that this candidate had.

Show CandidateId, average Round Number, min Round Number, and max Round Number. \*/

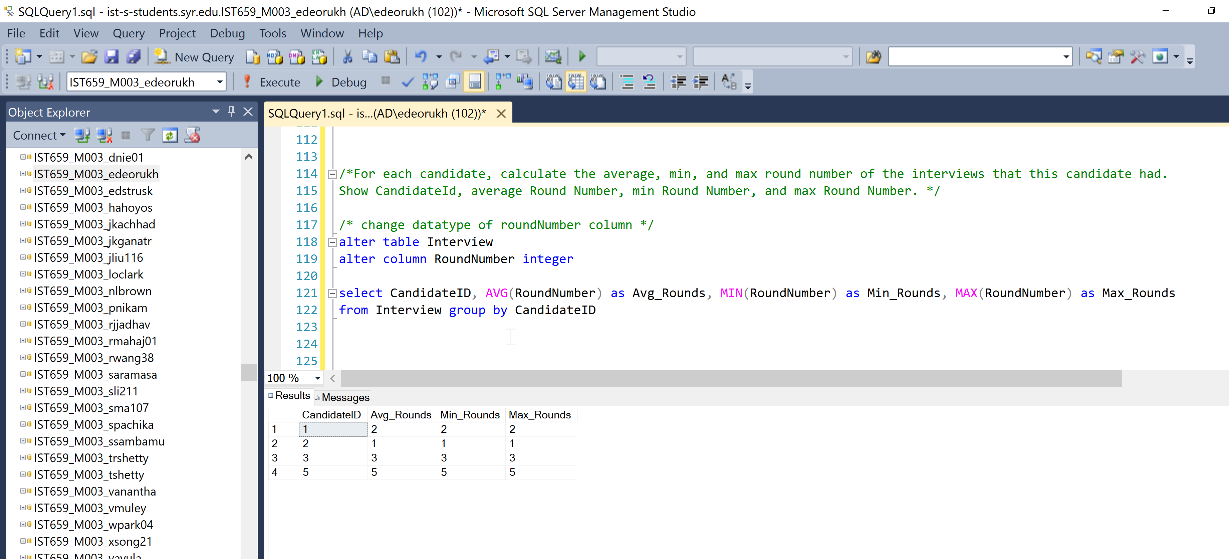
/\* change datatype of roundNumber column \*/

alter table Interview

alter column RoundNumber integer

select CandidateID, AVG(RoundNumber) as Avg\_Rounds, MIN(RoundNumber) as Min\_Rounds, MAX(RoundNumber) as Max\_Rounds

from Interview group by CandidateID



/\* Find all candidates whose average round number of interviews is below 3 (i.e. average

round number equals 1 or 2). Show the CandidateID and average round number. \*/

select CandidateID, AVG(RoundNumber) as average

from Interview group by CandidateID

having AVG(RoundNumber) <3

