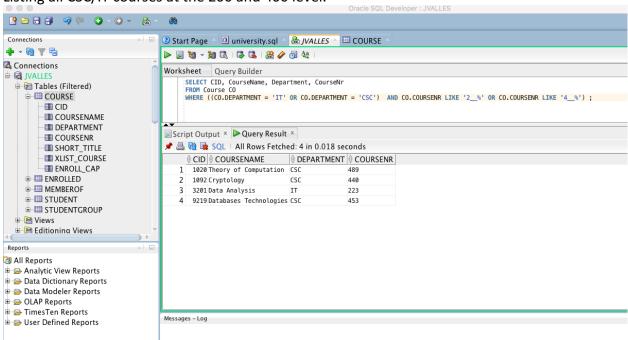
James Valles CSC 453 Assignment #2

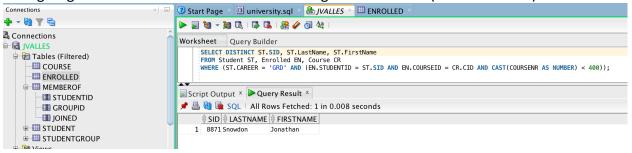
- 1. Reading done.
- 2.
- a.

Listing all CSC/IT courses at the 200 and 400 level.



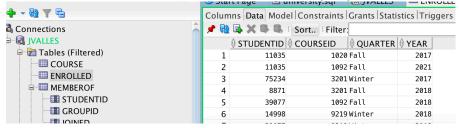
b.

Listing all graduate students enrolled in an undergraduate course (coursenr < 400).



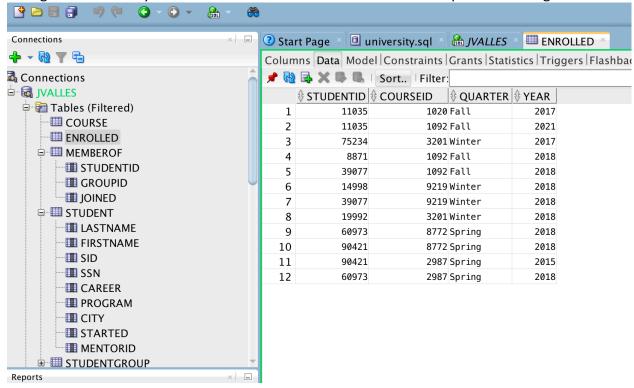
SELECT DISTINCT ST.SID, ST.LastName, ST.FirstName
FROM Student ST, Enrolled EN, Course CR
WHERE (ST.CAREER = 'GRD' AND (EN.STUDENTID = ST.SID AND EN.COURSEID = CR.CID AND
CAST(COURSENR AS NUMBER) < 400));

I added course id 3201 for student 8871 to test query above.

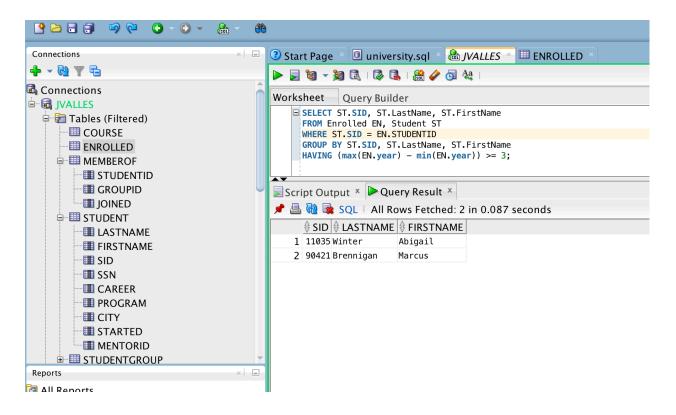


c.

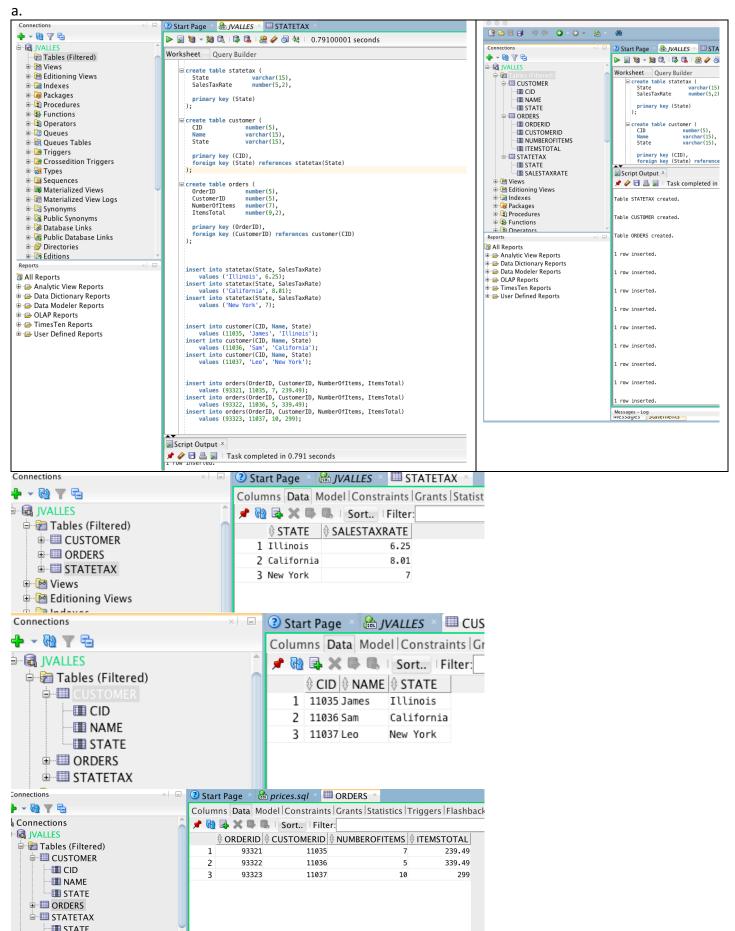
Changed enrollment year for 11035 to 2012 and 90421 to 2015 for 'positive testing'.



Based on query, there were two long-term students. Had to calculate diff between max, min years for each student. Used GROUP BY and HAVING.



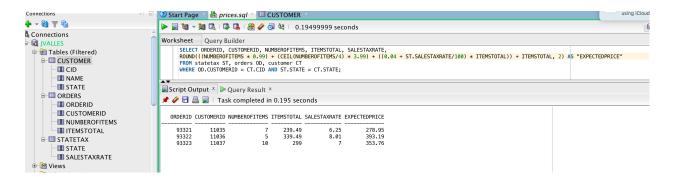
3. Create tables for Orders, Customer, StateTax. And populated tables with data.



b.

List all orders and the expected price the customer has to pay. Expected price calculated according to rules. Used Ceil to calculate bundle shipment charge.

SELECT ORDERID, CUSTOMERID, NUMBEROFITEMS, ITEMSTOTAL, SALESTAXRATE, ROUND(((NUMBEROFITEMS * 0.99) + (CEIL(NUMBEROFITEMS/4) * 3.99) + ((0.04 + ST.SALESTAXRATE/100) * ITEMSTOTAL)) + ITEMSTOTAL, 2) AS "EXPECTEDPRICE" FROM statetax ST, orders OD, customer CT WHERE OD.CUSTOMERID = CT.CID AND ST.STATE = CT.STATE;

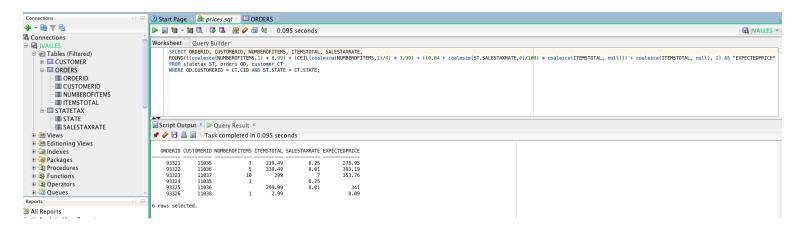


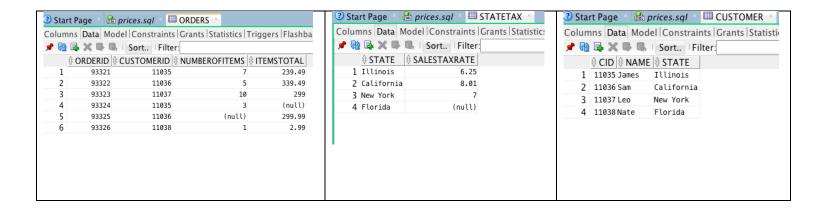
c.

Added coalesce function to input default values should for null values.

SELECT ORDERID, CUSTOMERID, NUMBEROFITEMS, ITEMSTOTAL, SALESTAXRATE, ROUND(((coalesce(NUMBEROFITEMS,1) * 0.99) + (CEIL(coalesce(NUMBEROFITEMS,1)/4) * 3.99) + ((0.04 + coalesce(ST.SALESTAXRATE,0)/100) * coalesce(ITEMSTOTAL, null))) + coalesce(ITEMSTOTAL, null), 2) AS "EXPECTEDPRICE"

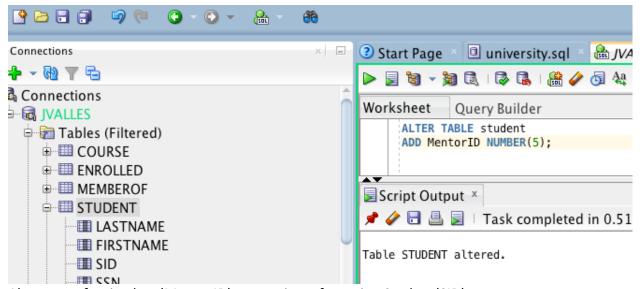
FROM statetax ST, orders OD, customer CT
WHERE OD.CUSTOMERID = CT.CID AND ST.STATE = CT.STATE;



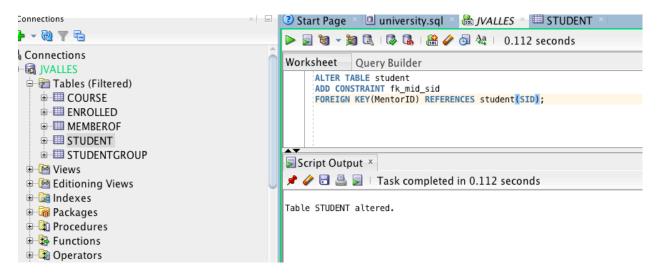


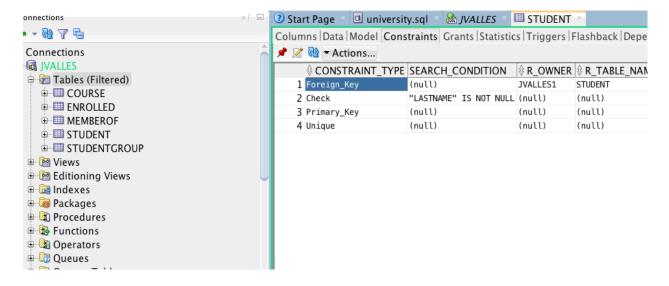
4.

a. Added mentorID field.

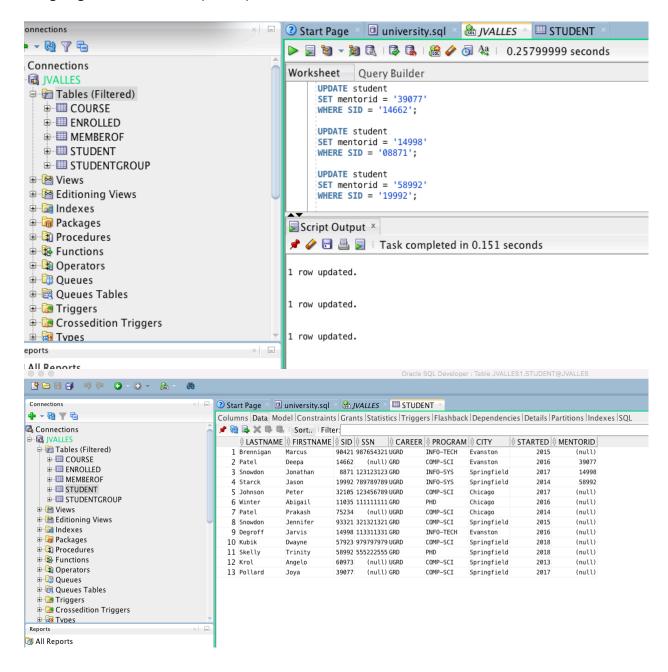


Also set up foreign key (MentorID) constraint referencing Student(SID).

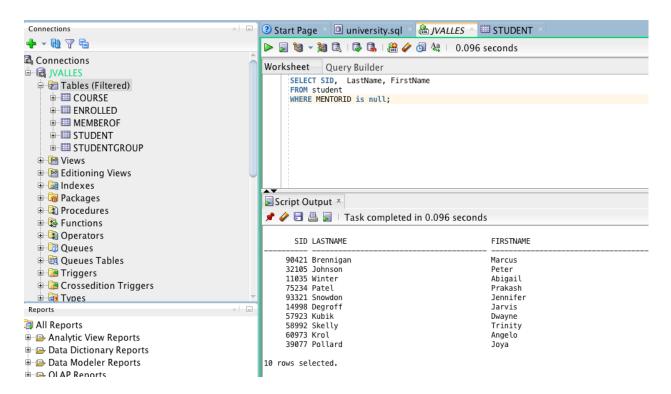




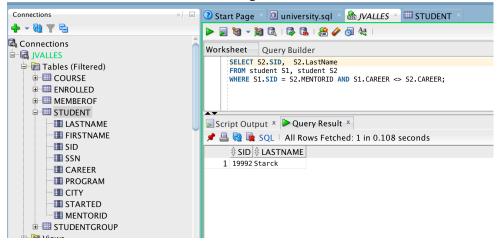
Assigning mentors to some(not all) of the students.



b. Query to list all students which has not been assigned a mentor.



List all mentees which have been assigned a mentor that do not have same careers.



Returned student whose last name is Starck using data set below.

