## Homework #1

# Anthony Orso & Kristin Fasiang COMP 353/453

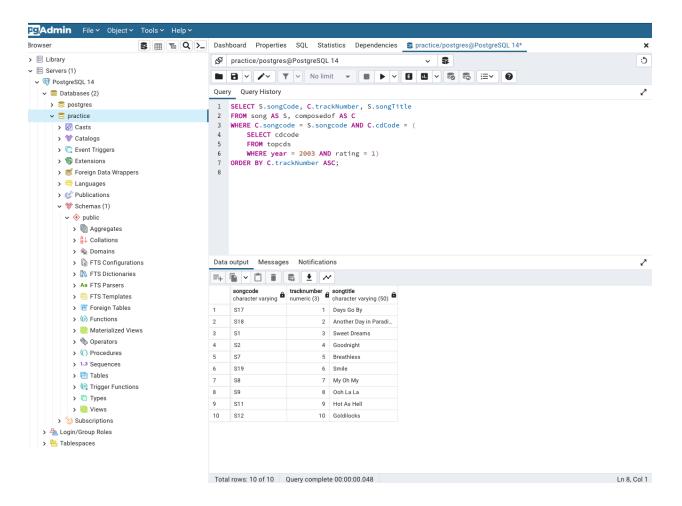
## **Division of Workload**

- Anthony: Questions 1-3, reviewed Kristin's work for accuracy, typed up report
- Kristin: Questions 4-6, reviewed Anthony's work for accuracy, compiled questions into a text file

### Q1.

SELECT S.songCode, C.trackNumber, S.songTitle
FROM song AS S, composed of AS C
WHERE C.songcode = S.songcode AND C.cdCode = (
SELECT cdcode
FROM topcds
WHERE year = 2003 AND rating = 1)
OPDER BY C.trackNumber ASC:

ORDER BY C.trackNumber ASC;



SELECT MG.groupCode, MG.groupName,COUNT(C.cdCode) AS numberOfTop10CDs

FROM musicalGroup AS MG, cd AS C

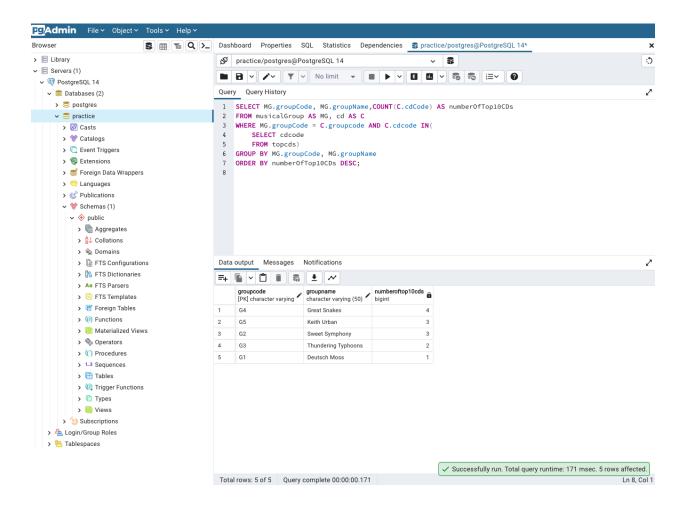
WHERE MG.groupCode = C.groupcode AND C.cdcode IN(

SELECT cdcode

FROM topcds)

GROUP BY MG.groupCode, MG.groupName

ORDER BY numberOfTop10CDs DESC;

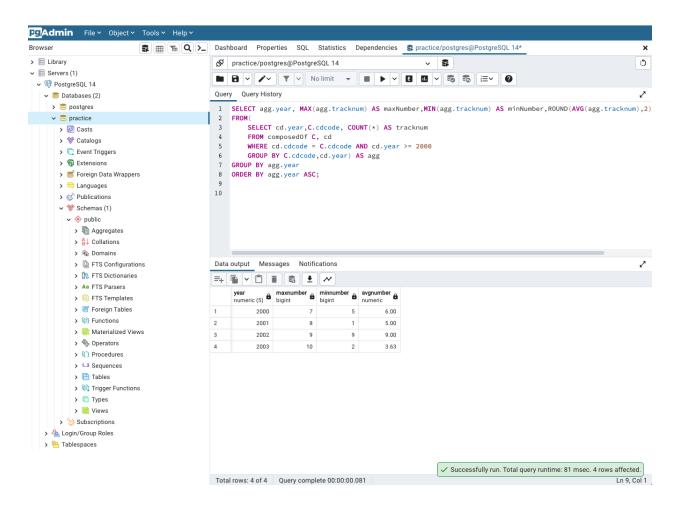


SELECT agg.year, MAX(agg.tracknum) AS maxNumber,MIN(agg.tracknum) AS minNumber,ROUND(AVG(agg.tracknum),2) AS avgNumber FROM(

SELECT cd.year,C.cdcode, COUNT(\*) AS tracknum FROM composedOf C, cd WHERE cd.cdcode = C.cdcode AND cd.year >= 2000 GROUP BY C.cdcode,cd.year) AS agg

GROUP BY agg.year

ORDER BY agg.year ASC;



### Q4.

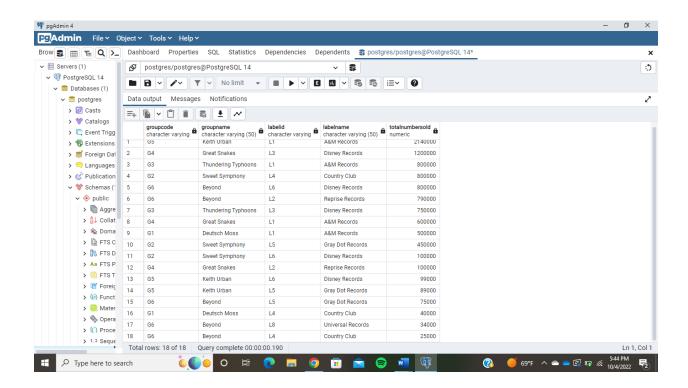
SELECT cd.groupcode, M.groupName, cd.labelID, R.labelName, sum(cd.numbersold) AS totalNumberSold

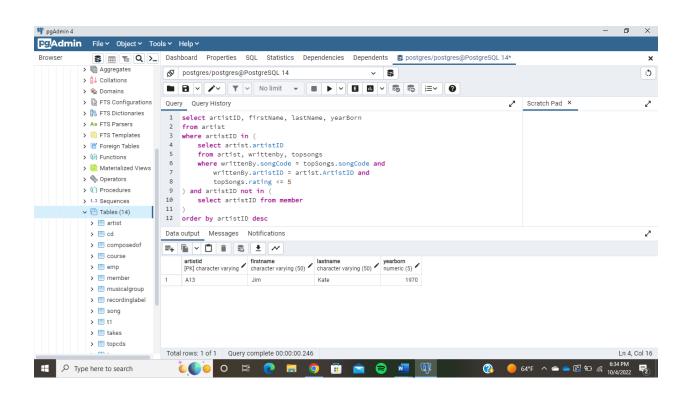
FROM cd, musicalGroup M, recordingLabel R

WHERE M.groupcode = cd.groupCode AND R.labelID = cd.labelID

GROUP BY cd.groupcode, M.groupName, cd.LabelID, R.labelName

ORDER BY totalNumberSold desc





SELECT DISTINCT M.groupCode, M.groupName

FROM musical group M, cd

WHERE M.groupcode = cd.groupcode AND M.groupcode IN(

SELECT cd.groupcode

FROM cd, recordingLabel R

WHERE cd.labelid = R.labelid AND R.location = 'Detroit') AND M.groupcode NOT IN(

SELECT cd.groupcode

FROM cd, recordingLabel R

WHERE cd.labelid = R.labelid AND R.location != 'Detroit')

ORDER BY M.groupname ASC;

