Name: _____   Due: _____/_____/_____

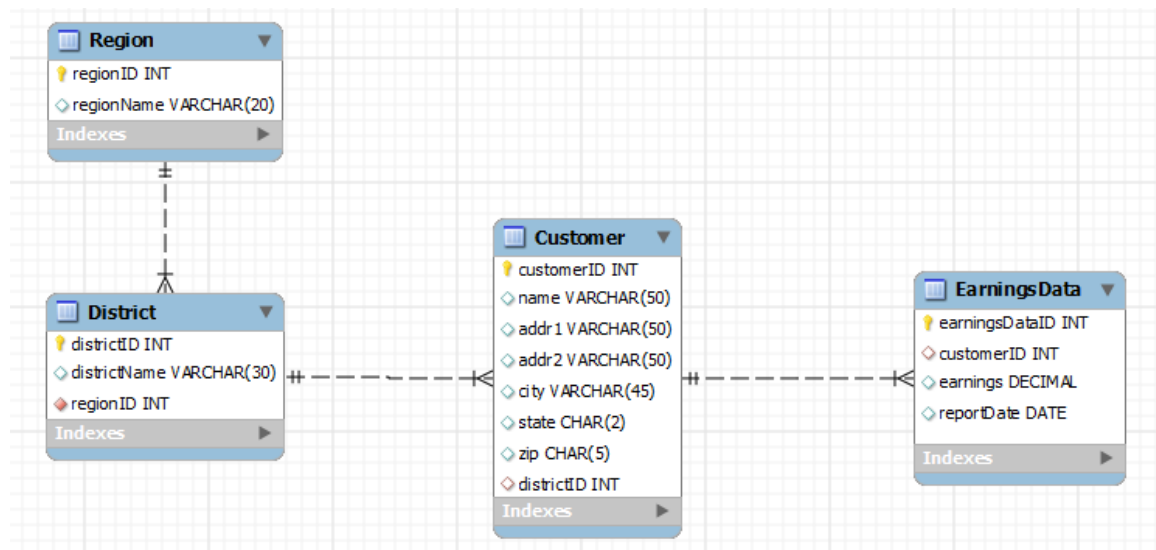|	**Rochester Institute of Technology** **Golisano College of Computing and Information Sciences** **School of Information**
R·I·T	

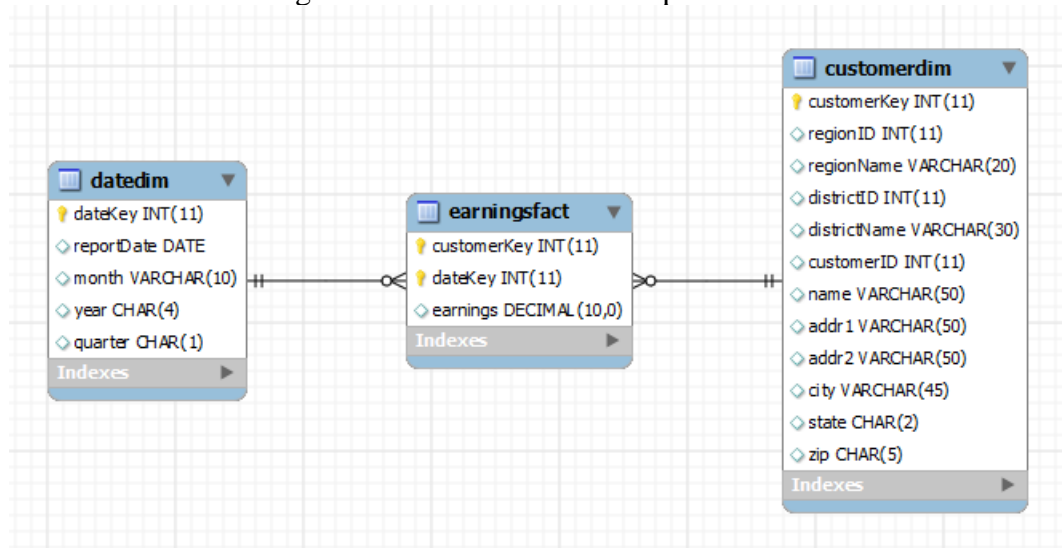# Data Warehousing PE08
SQL Extensions #1

Overview

In this exercise you will have an opportunity to try some of the SQL enhancements added for data warehouses.

Scenario

The Earnings Analysis Company has several a data collection system shown in the following Entity Relationship diagram:

From this the following data mart ERD was developed.

***Download PE_Earnings.sql from MyCoursees to create PE_Earnings data mart.* Complete the following exercises:**

Store the results in files called TeamNamesQnn.sql where nn is the question number. Store the explanations in a MS Word document with similar naming. Zip the files together and upload to the appropriate dropbox (PE08:SQL 1).

Provide a printout for your instructor/TA containing the queries and the description of the results.

1. Compare the ROLLUP and CUBE in the following examples (you will need to simulate CUBE with UNIONs). Explain the differences.

    a. Summarize the Earnings by Year, Quarter and Month.

    b. Summarize the Earnings by Region, District and State for 2010 earnings only.

    Describe, in English, the differences in the result that you received for each method.

2. Use the ROLLUP example from question 1.b. but only show States with total earnings above 1000.

Be prepared to discuss what you discovered about these queries next class.

PE08 Grade Sheet

Group #_____   **Names:** _____

	Max Pts.	Pts. Earned	Comments
#1a			
Rollup (SQL & Description)	15		
Cube(SQL & Description)	20		
#1b			
Rollup (SQL & Description)	15		
Cube(SQL & Description)	20		
#2 SQL	20		
Provided a Printout	10		
TOTAL	100		
Graded by Group #			