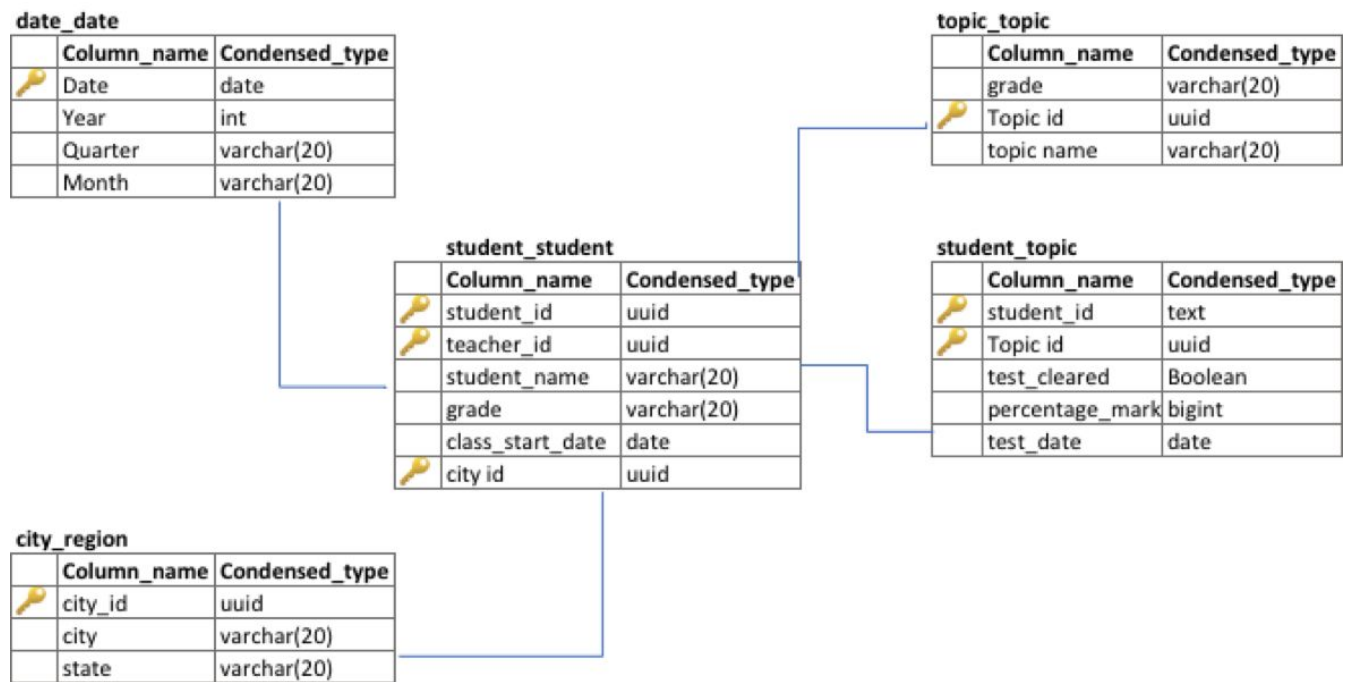


**SQL Test:****Test Duration: 1 hour 30 mins**

Scenario: The database "student information" contains the details on topics covered by students. The details stored are date\_date, city\_region, topic\_topic, student\_student, student\_student.

The below diagram will show you the contents of all the tables.



Write queries to answer the following questions:

1. List the top 5 cities in terms of number of students. Display the names of cities, states and number of students in each city.
2. Show the distribution of students across grades. Display the grade and number of students in each grade, % students in each grade.
3. List our most successful quarter in terms of new students added in the year 2017. Display all quarters, count and % students who started class in each quarter.
4. How many topics are available in each grade? Display grade, number of topics in each grade.
5. What percentage of students completed all topics in the grade? Display grade, number of topics(incl topics that have never been completed), number of students who have completed all the topics in the grade. *A topic is completed when the 'test cleared' flag is TRUE.*
6. Identify topics that have least scores. Display all topic names, mean, median, 25th and 75th percentile marks for each.
7. Any other insights that can be drawn with the above information?