1) [50 pts] You have been asked to develop a preliminary Entity-Relationship Diagram (ERD) for a symphony orchestra.

You discover the following entity types that should be included:

- **CONCERT SEASON**
  - The season during which a series of concerts will be performed. Identifier is Opening_Date, which includes Month, Day, and Year.

- **CONCERT**
  - A given performance of one or more compositions. Identifier is Concert_Number. Another important attribute is Concert_Date, which consists of the following: Month, Day, Year, and Time. Each concert typically has more than one concert date.

- **COMPOSITION**
  - Compositions to be performed at each concert. Identifier is Composition_ID, which consists of the following: Composer_Name and Composition_Name. Another attribute is Movement_ID, which consists of two parts: Movement_Number and Movement_Name. Many, but not all, compositions have multiple movements.

- **CONDUCTOR**
  - Person who will conduct the concert. Identifier is Conductor_ID. Another attribute is Conductor_Name.

- **SOLOIST**
  - Solo artist who performs a given composition on a particular concert. Identifier is Soloist_ID. Another attribute is Soloist_Name.

During further discussions you discover the following:

- A concert season schedules one or more concerts. A particular concert is scheduled for only one concert season.

- A concert includes the performance of one or more compositions. A composition may be performed at one or more concerts or may not be performed.

- For each concert there is one conductor. A conductor may conduct any number of concerts or may not conduct any concerts.

- Each composition may require one or more soloists or may not require a soloist. A soloist may perform one or more compositions at a given concert or may not perform any composition. The symphony orchestra wishes to record the date when a soloist last performed a given composition (Date_Last_Performed).
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Draw an ERD to represent what you have discovered. Identify a business rule in this description and explain how this business rule is modeled on the ERD. Please indicate any assumptions that you have made.

Answer for Question 1:

![ERD Diagram]

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2) [50 pts] Map the following entity-relationship diagram into a relational database schema. Please state any assumptions that you have made. (Do not forget to use arrows for foreign key - primary key references.)
Answer for Question 2: