Fall 2024 (Term 2241)

## Introduction to Database & Data Modeling Homework #7 Transposing

Name: (Lastname, Firstname)	_Lynch, Connor
Homework #7: Transposing - Supertypes, Subtypes	
You must covert this word document to PDF after you include all your relational schema.	
Note: submissions must be made to the appropriate assig required to be typed, not handwritten.	nment box in PDF format. This homework is
PART 1: Transposing an E-R (In Zip file HW07.zip	o) Diagram (60 pts)
Transpose the E-R Diagram for RITPO into relations. Use the rel	lational notation:
RELNAME( KeyAttr, Attr1, Attr2, Foreign_Key )	
	-
Italicize AND dash underline your foreign keys.	
Be sure to include a reference statement for each foreign key that follows:	ows the format we have been using in class.
Write the Must Exist In (M.E.I.) statements below the appropriate re	lation.
Use all capital letters for each relation name.	
Create & submit a PDF file called <b>yourname_HW7.pdf</b> to inclu <b>SEE CHART In Zip file HW07.zip.</b>	ude all of the resulting relations found in HW07.jpg



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Homework #7

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Resulting Relations: MEMBER(memberID, firstname, middle\_initial, lastname, street, city, state, zipcode, musician?, conductor?) CONDUCTOR(<u>memberID</u>, level) Conductor(memberID) M.E.I. Member(memberID) SENIOR(*memberID*, number\_concerts\_conducted) Senior(memberID) M.E.I. Conductor(memberID) JUNIOR(*memberID*, *mentor*) Junior(memberID) M.E.I. Conductor(memberID) Junior(mentor) M.E.I. Senior(memberID) MUSICIAN(*memberID*) Musician(memberID) M.E.I. Member(memberID) INSTRUMENTS(memberID, instrument) Instruments(memberID) M.E.I. Musician(memberID) SOLOIST(memberID) Soloist(memberID) M.E.I. Musician(memberID) CONCERT(concert\_number, name, date, time, conductor, season\_year) Concert(conductor) M.E.I. Conductor(memberID) Concert(season\_year) M.E.I. Concert Season(season year) CONCERT\_COMPOSITION(concert\_number, composition\_name, composer\_name) - -----Concert\_Composition(composition\_name, composer\_name) M.E.I. Composition(composition\_name, composer name) Concert\_Composition(concert\_number) M.E.I. Concert(conert\_number)

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COMPOSITION(composition\_name, composer\_name, num\_movements)

COMPOSITION\_SOLOIST(<u>soloistID</u>, <u>composition\_name</u>, <u>composer\_name</u>, date\_last\_solo)

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Composition\_Soloist(soloistID)

M.E.I. Soloist(memberID)

Composition\_Soloist(composition\_name, composer\_name) M.E.I. Soloist(composition\_name, composer\_name)

CONCERT\_SEASON(<u>season\_year</u>, opening\_date, closing\_date)