

RIT	Introduction to Database & Data Modeling Homework #7	Spring 2023 (2225)
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Homework #7: Transposing - Supertypes, Subtypes

Due Date (See MyCourses ASSIGNMENTS)

Assignment Box HW07

Note: submissions must be made to the appropriate dropbox in PDF format. This homework is required to be typed, not handwritten.

PART 1: Transposing an E-R Diagram (55 pts)

Transpose the E-R Diagram for RITPO into relations. Use the relational notation: RELNAME(KeyAttr, Attr1, Attr2, *FK*). *Italicize* or dash underline your foreign keys. Be sure to include a reference statement for each foreign key that follows the format :

CURRENT_TABLE(fkattribute(s)) must exist in ORIGINAL_TABLE(pkattribute(s))

Create & submit a PDF file called **yourname_HW7.pdf** to include all of the resulting relations.

See Chart (HW07.jpg) in Zip file

1

MEMBER(zipcode, state, street, city, firstname, middle_initial, lastname, memberID, musician, conductor)

2

MUSICIAN(memberID, instruments)

MUSICIAN(memberID) M.E.I MEMBER(memberID)

3

SOLOIST(memberID)

SOLOIST(memberID) M.E.I MUSICIAN(memberID)

4

CONDUCTOR(level, memberID)

CONDUCTOR(memberID) M.E.I MEMBER(memberID)

5

SENIOR(memberID, num_concerts_conducted)

SENIOR(memberID) M.E.I CONDUCTOR(memberID)

6

JUNIOR(memberID)

JUNIOR(memberID) M.E.I CONDUCTOR(memberID)

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7

MENTOR_MentoredBy(mentorID, mentored_by_seniorID)

MENTOR_MentoredBy (mentorID) M.E.I SENIOR(memberID)

MENTOR_MentoredBy(mentored_by_seniorID) M.E.I Junior(memberID)

8

CONCERT_SEASON(season_year, opening_date, closing_date)

9

CONCERT(time, date, name, concert_number, memberID, season_year)

CONCERT(season_year) M.E.I CONCERT_SEASON(season_year)

CONCERT(memberID) M.E.I CONDUCTOR(memberID)

10

CONCERT_COMPOSITION(composition_name, composer_name, concert_number, season_year)

CONCERT_COMPOSITION(composition_name, composer_name) M.E.I

COMPOSITION(composition_name, composer_name)

CONCERT_COMPOSITION(concert_number, season_year) M.E.I

CONCERT(concert_number, season_year)

11

COMPOSITION(composition_name, composer_name, num_movments)

12

COMPOSITION_SOLOIST(date_last_solo, composer_name, composition_name, memberID)

COMPOSITION_SOLOIST(composer_name, composition_name) M.E.I

COMPOSITION(composer_name, composition_name)

COMPOSITION_SOLOIST(memberID) M.E.I SOLOIST(memberID)