

Umeå University
Department of Computing Science

Introduction to Database Managment 7.5 p
5DV119

Exercises, Chapter/Topic 4

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1 Introduction

2 Mapping Step by Step

Mapping of Regular Entity Types

BRANCH

<u>B_number</u>

EMPLOYEE

<u>E_id</u>	E_name
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STATE

<u>S_name</u>	S_abbr
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Step 2: Mapping of Weak Entity Types

CITY

<u>C_name</u>	S_abbr
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Step 3: Mapping of Binary 1:1 Relationship Types

BRANCH

<u>B_number</u>	MGR_id	MGR_start_date
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EMPLOYEE

<u>E_id</u>	E_name
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STATE

<u>S_name</u>	S_abbr	Capital
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CITY

<u>C_name</u>	S_abbr	Pop
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Step 4: Mapping of Binary 1:N Relationship Types

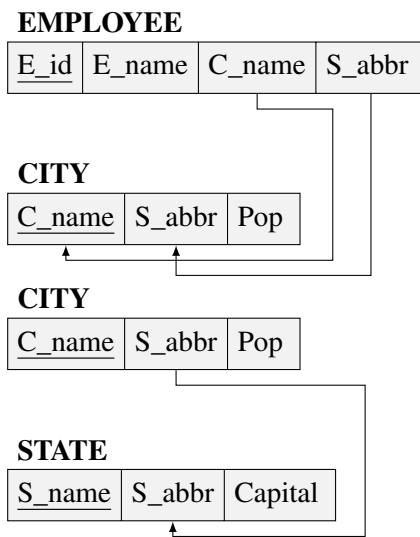
BRANCH

<u>B_number</u>	MGR_id	MGR_start_date	C_name	S_abbr
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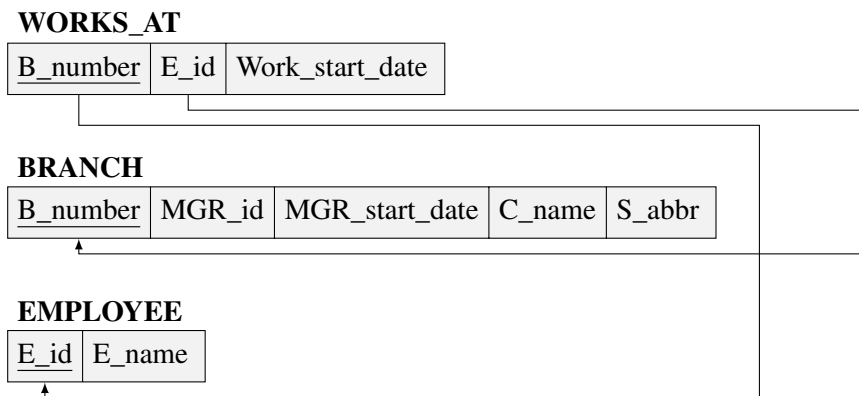
CITY

<u>C_name</u>	S_abbr	Pop
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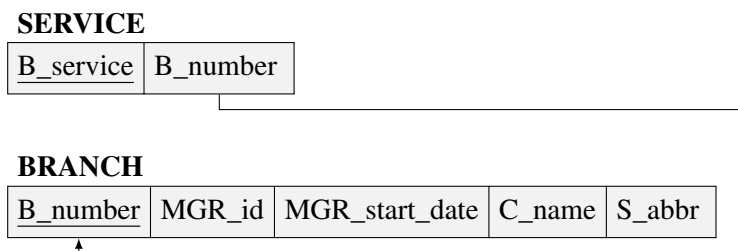
2(3)



Step 5: Mapping of Binary M:N Relationship Types



Step 6: Mapping of Multivalued Attributes



Step 7: Mapping of N-ary Relationship Types**3 Final Results****BRANCH**

<u>B_number</u>	MGR_id	MGR_start_date	C_name	S_abbr
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SERVICE

<u>B_service</u>	B_number
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WORKS_AT

<u>B_number</u>	E_id	Work_start_date
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EMPLOYEE

<u>E_id</u>	E_name	C_name	S_abbr
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STATE

<u>S_name</u>	S_abbr	Capital
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CITY

<u>C_name</u>	S_abbr	Pop
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