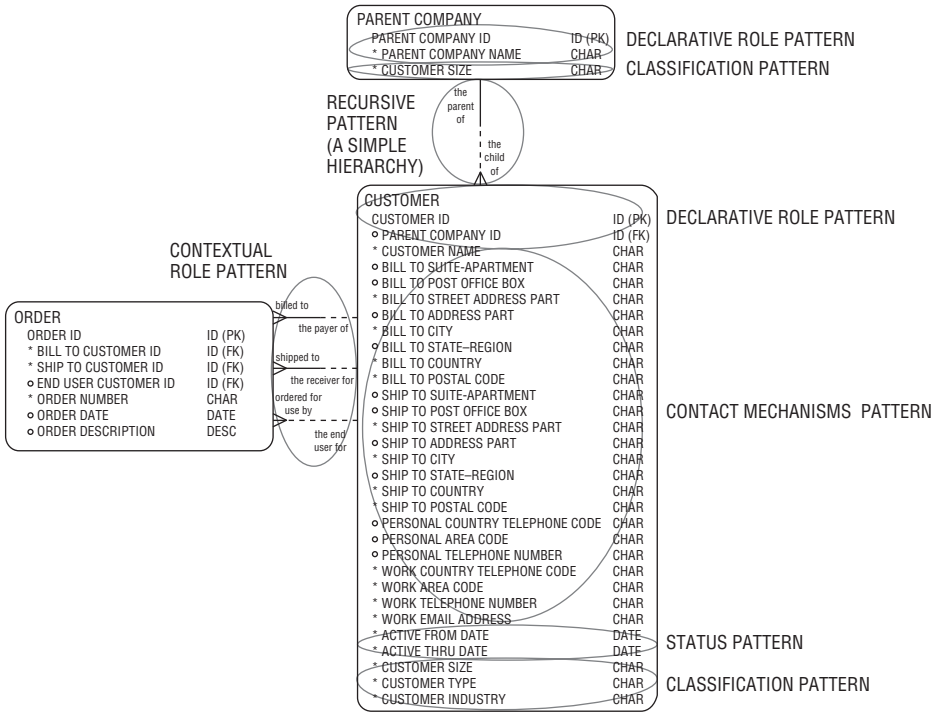


Figure 9-1 Data model for use in scope statements and understanding data requirements

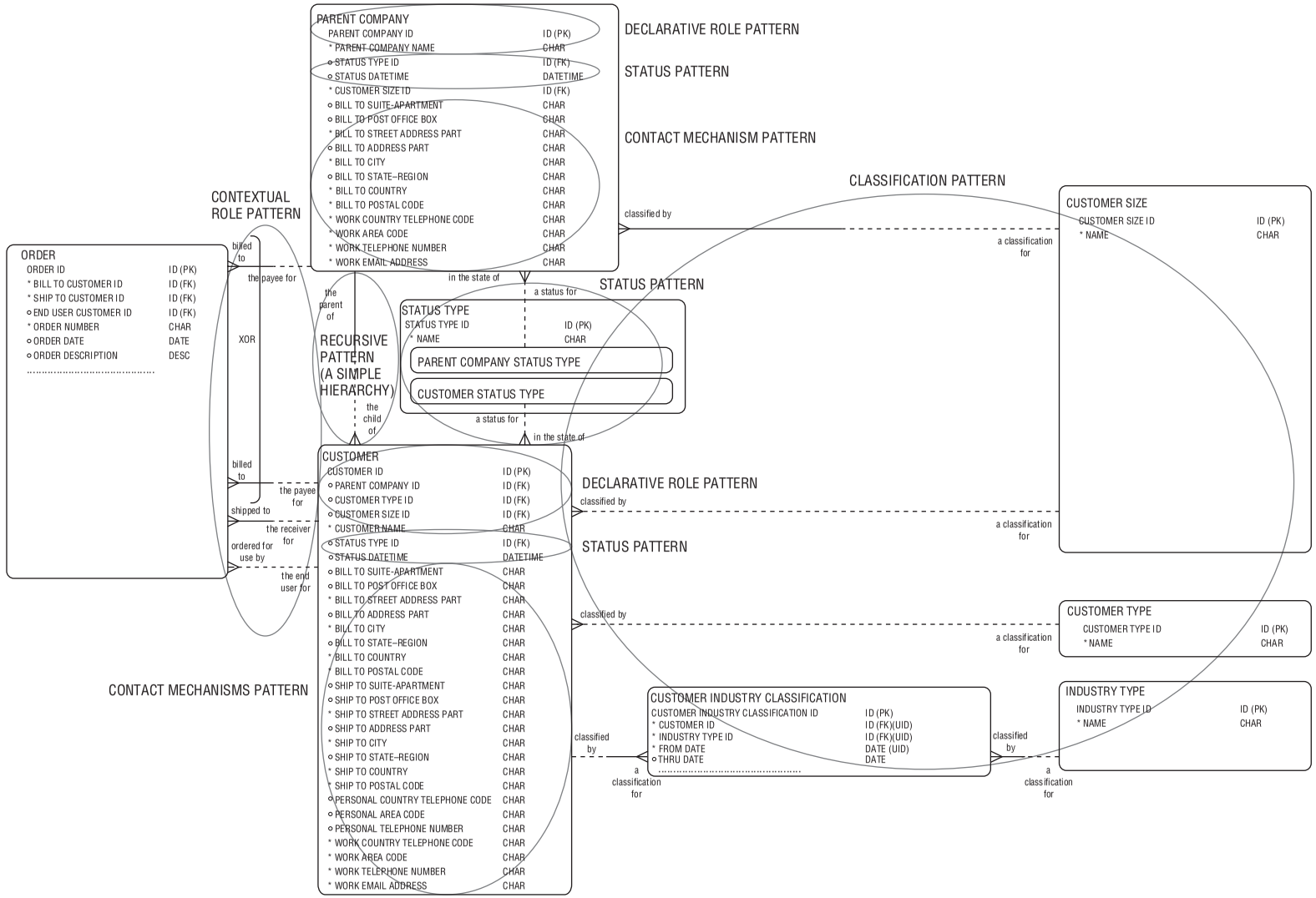


Figure 9-2 Data model for prototypes

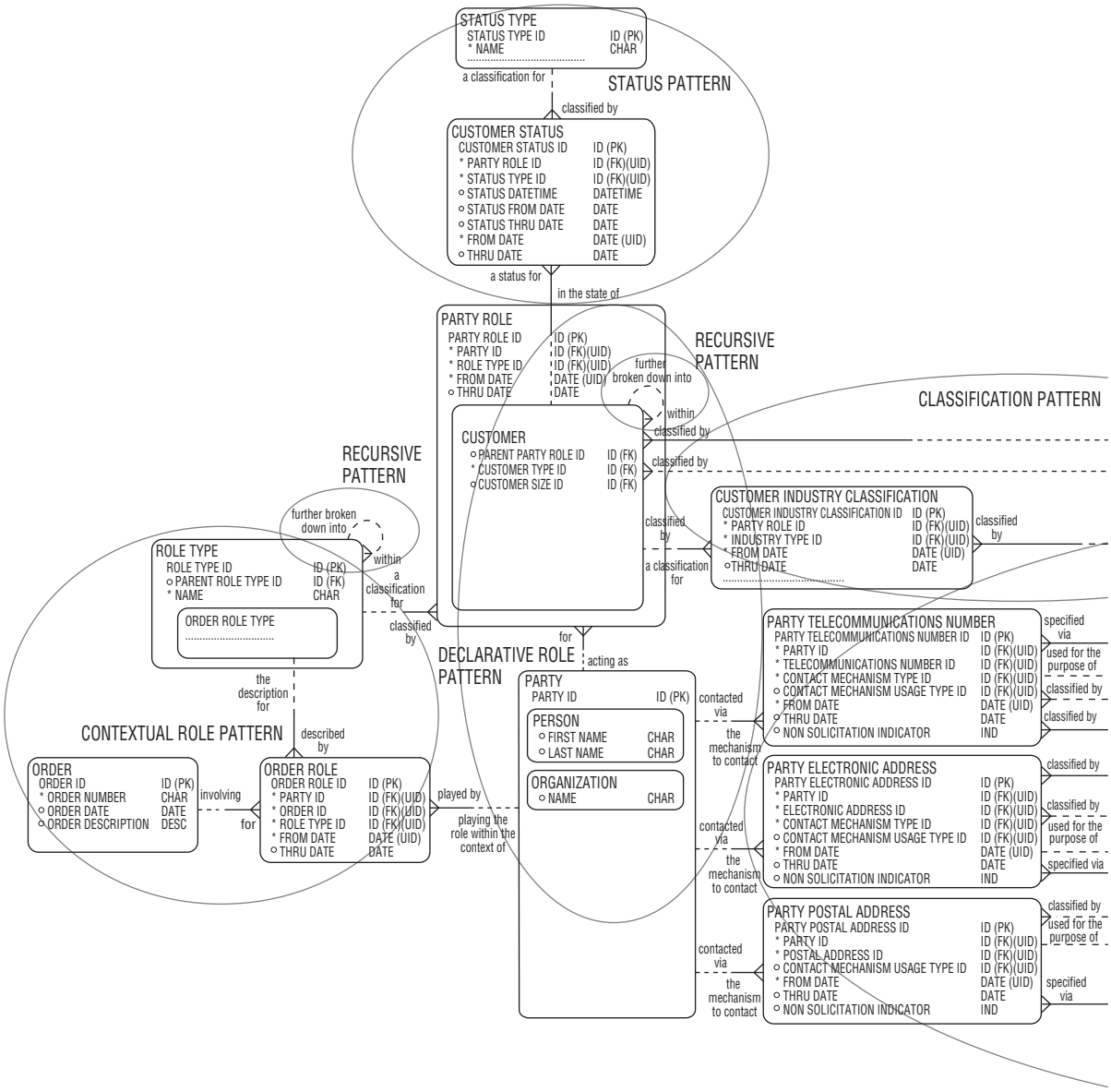
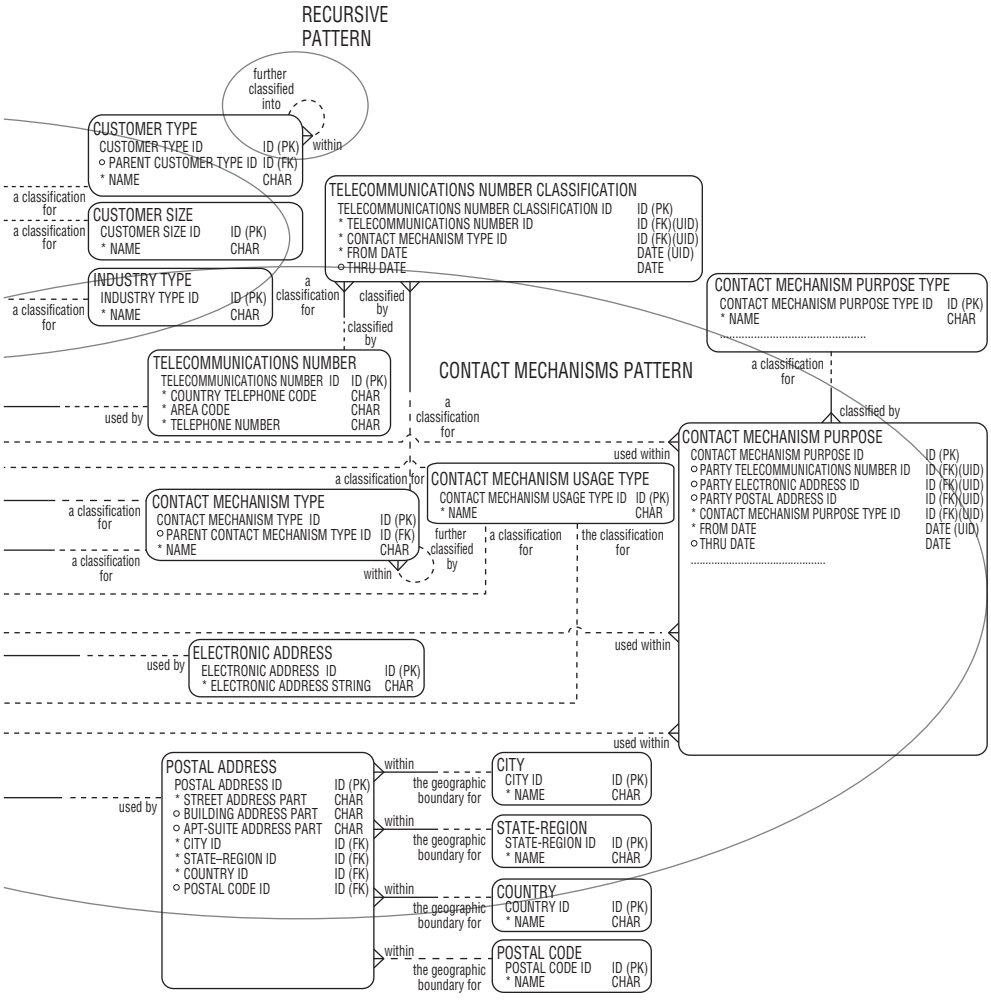


Figure 9-3 Application data model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CUSTOMER SIZE ID ID (PK)
NAME CHAR
INDUSTRY TYPE
INDUSTRY TYPE ID ID (PK)
NAME CHAR
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THRU DATE DATE
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further classified by
the classification for
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POSTAL ADDRESS
POSTAL ADDRESS ID ID (PK)
STREET ADDRESS PART CHAR
BUILDING ADDRESS PART CHAR
APT-SUITE ADDRESS PART CHAR
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STATE–REGION ID ID (FK)
COUNTRY ID ID (FK)
POSTAL CODE ID ID (FK)
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CITY ID ID (PK)
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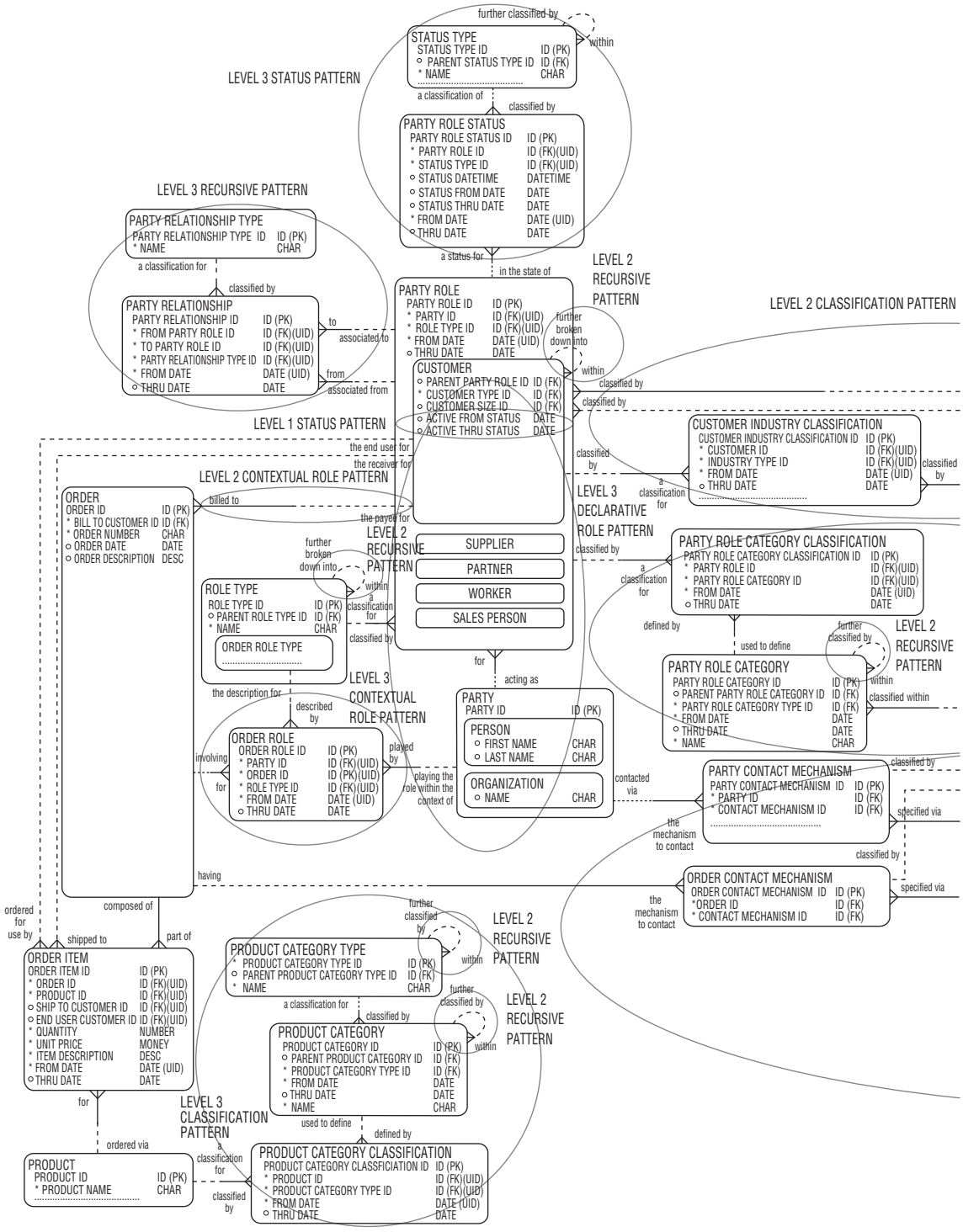
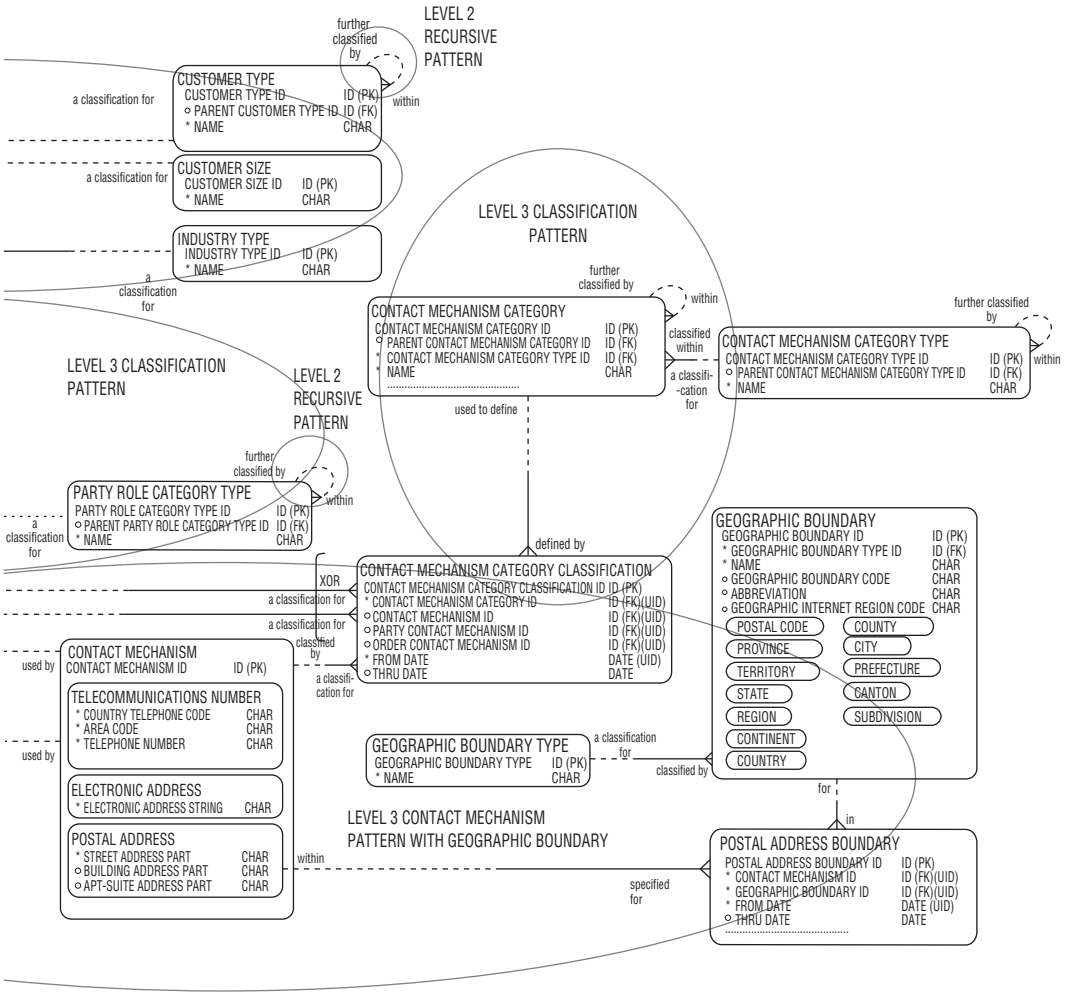


Figure 9-4 Subsection of the enterprise data model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* NAME CHAR
CUSTOMER SIZE
CUSTOMER SIZE ID ID (PK)
* NAME CHAR
INDUSTRY TYPE
INDUSTRY TYPE ID ID (PK)
* NAME CHAR
a classification for
LEVEL 3 CLASSIFICATION
PATTERN
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within
classified within
a classifi-cation for
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* NAME CHAR
further classified by
within
used to define
LEVEL 3 CLASSIFICATION
PATTERN
LEVEL 2
RECURSIVE
PATTERN
further
classified by
within
PARTY ROLE CATEGORY TYPE
PARTY ROLE CATEGORY TYPE ID ID (PK)
PARENT PARTY ROLE CATEGORY TYPE ID ID (FK)
* NAME CHAR
a classification for
defined by
XOR
a classification for
a classification for
CONTACT MECHANISM CATEGORY CLASSIFICATION
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CONTACT MECHANISM ID ID (FK)(UID)
PARTY CONTACT MECHANISM ID ID (FK)(UID)
ORDER CONTACT MECHANISM ID ID (FK)(UID)
* FROM DATE DATE (UID)
THRU DATE DATE
classified by
a classifi-cation for
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GEOGRAPHIC BOUNDARY ID ID (PK)
* GEOGRAPHIC BOUNDARY TYPE ID ID (FK)
* NAME CHAR
GEOGRAPHIC BOUNDARY CODE CHAR
ABBREVIATION CHAR
GEOGRAPHIC INTERNET REGION CODE CHAR
POSTAL CODE
PROVINCE
TERRITORY
STATE
REGION
CONTINENT
COUNTRY
COUNTY
CITY
PREFECTURE
CANTON
SUBDIVISION
used by
CONTACT MECHANISM
CONTACT MECHANISM ID ID (PK)
TELECOMMUNICATIONS NUMBER
* COUNTRY TELEPHONE CODE CHAR
* AREA CODE CHAR
* TELEPHONE NUMBER CHAR
used by
ELECTRONIC ADDRESS
* ELECTRONIC ADDRESS STRING CHAR
POSTAL ADDRESS
* STREET ADDRESS PART CHAR
BUILDING ADDRESS PART CHAR
APT-SUITE ADDRESS PART CHAR
within
GEOGRAPHIC BOUNDARY TYPE
GEOGRAPHIC BOUNDARY TYPE ID ID (PK)
* NAME CHAR
a classification for
classified by
for
in
LEVEL 3 CONTACT MECHANISM
PATTERN WITH GEOGRAPHIC BOUNDARY
POSTAL ADDRESS BOUNDARY
POSTAL ADDRESS BOUNDARY ID ID (PK)
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THRU DATE DATE
specified for

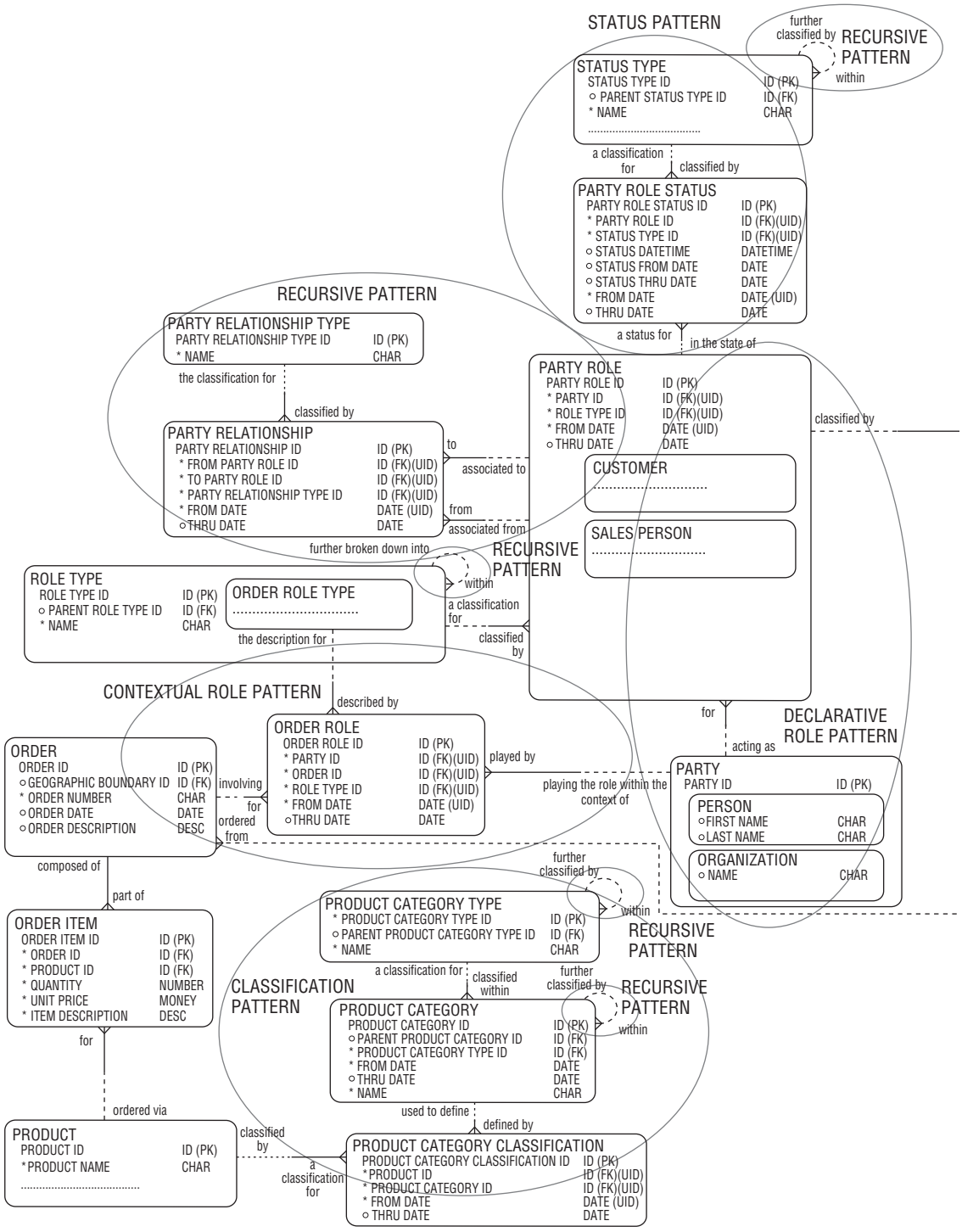
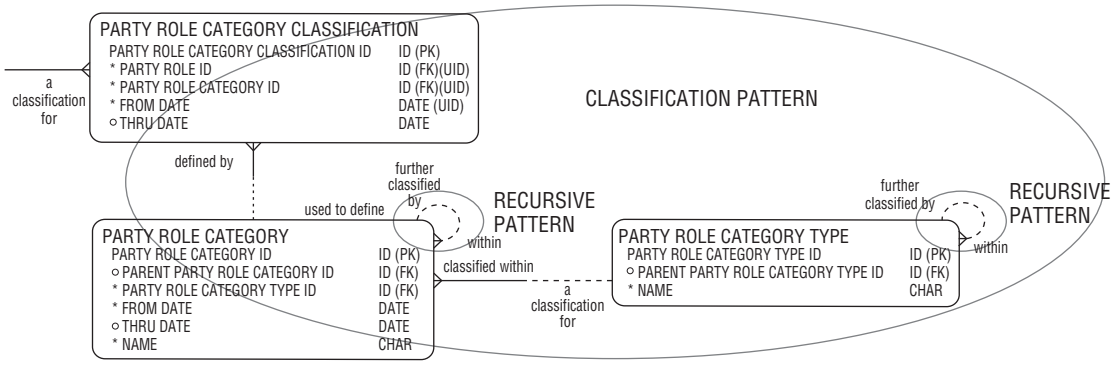
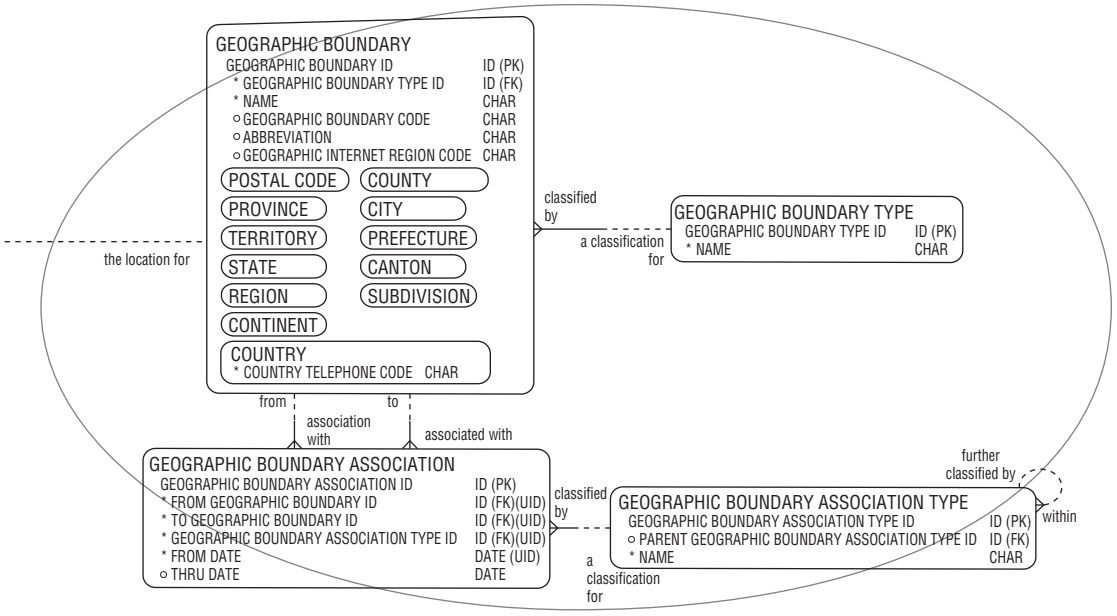


Figure 9-5 Relational data warehouse data model



CONTACT MECHANISM PATTERN WITH GEOGRAPHIC BOUNDARY



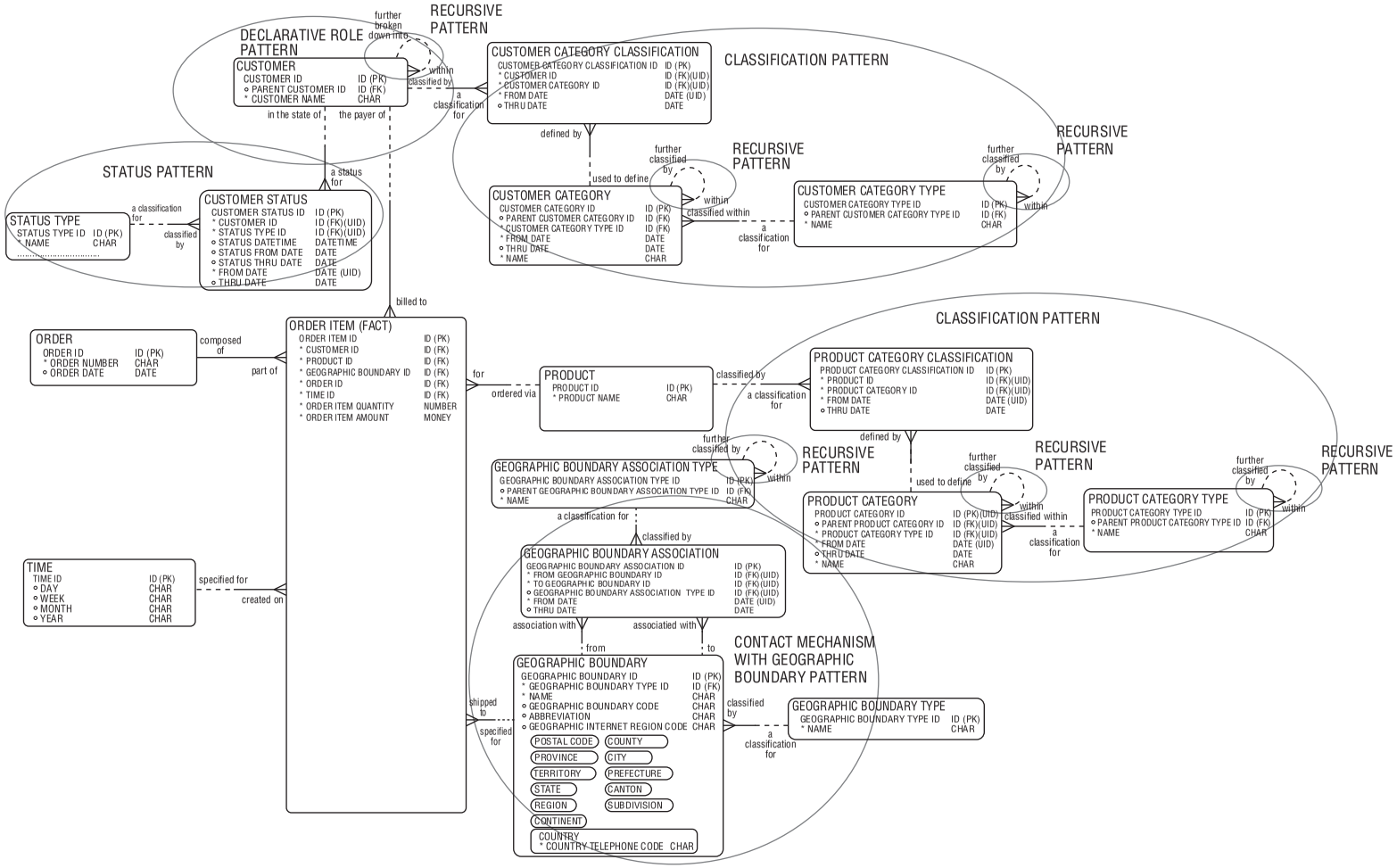


Figure 9-6 Star schema–based data warehouse data model

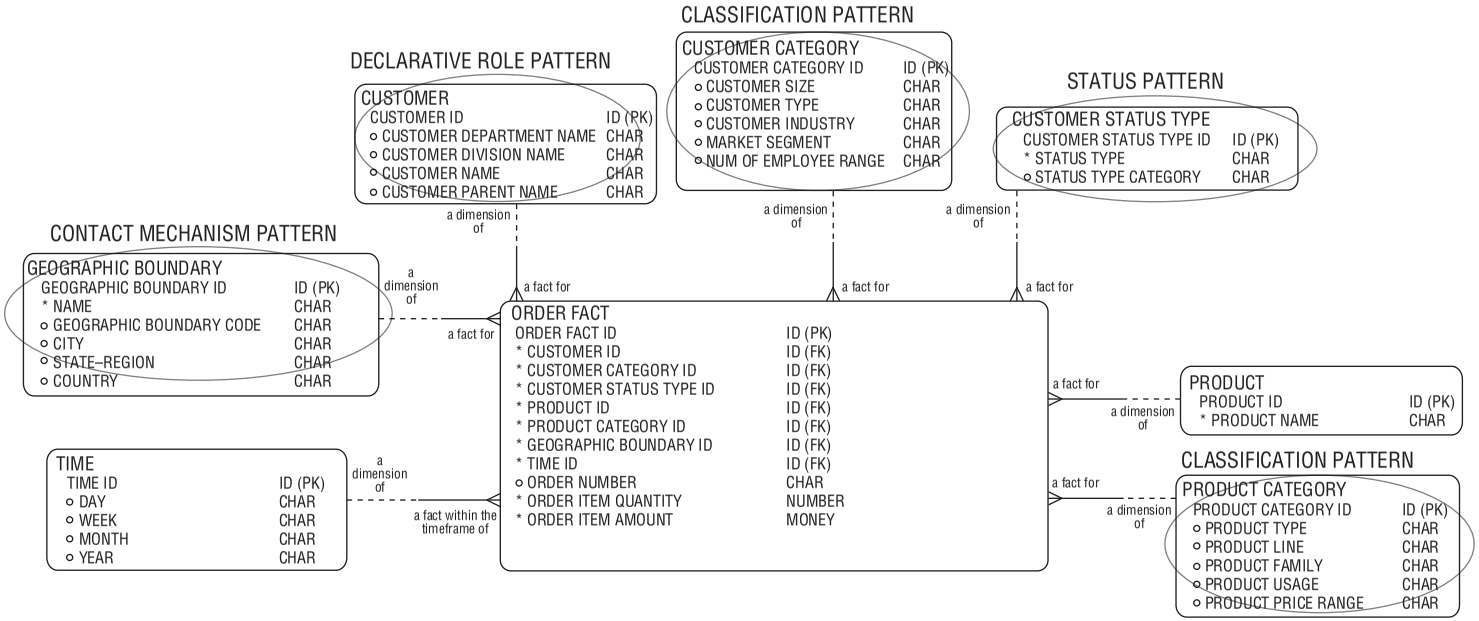


Figure 9-7 Star schema design, based on star schema–based data warehouse data model

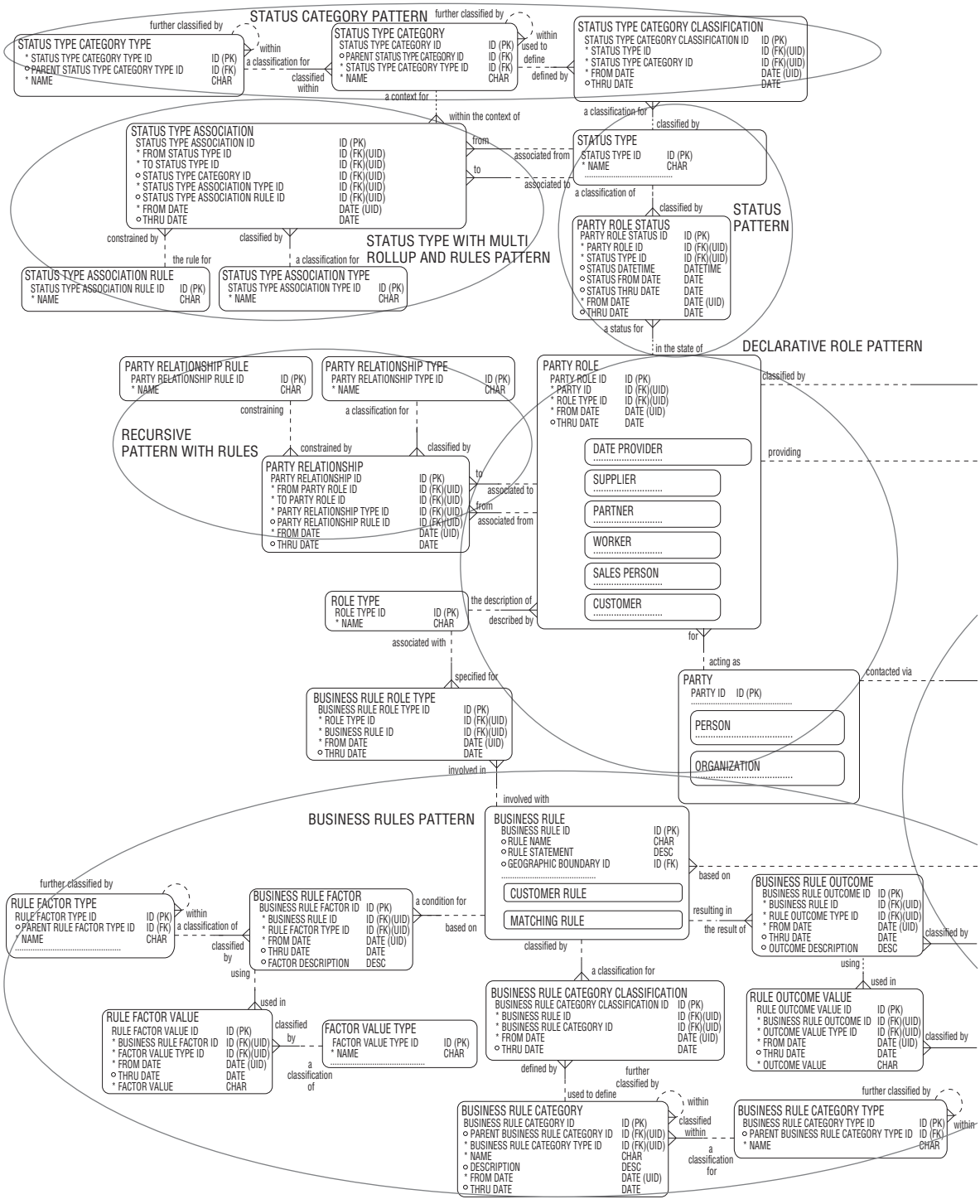
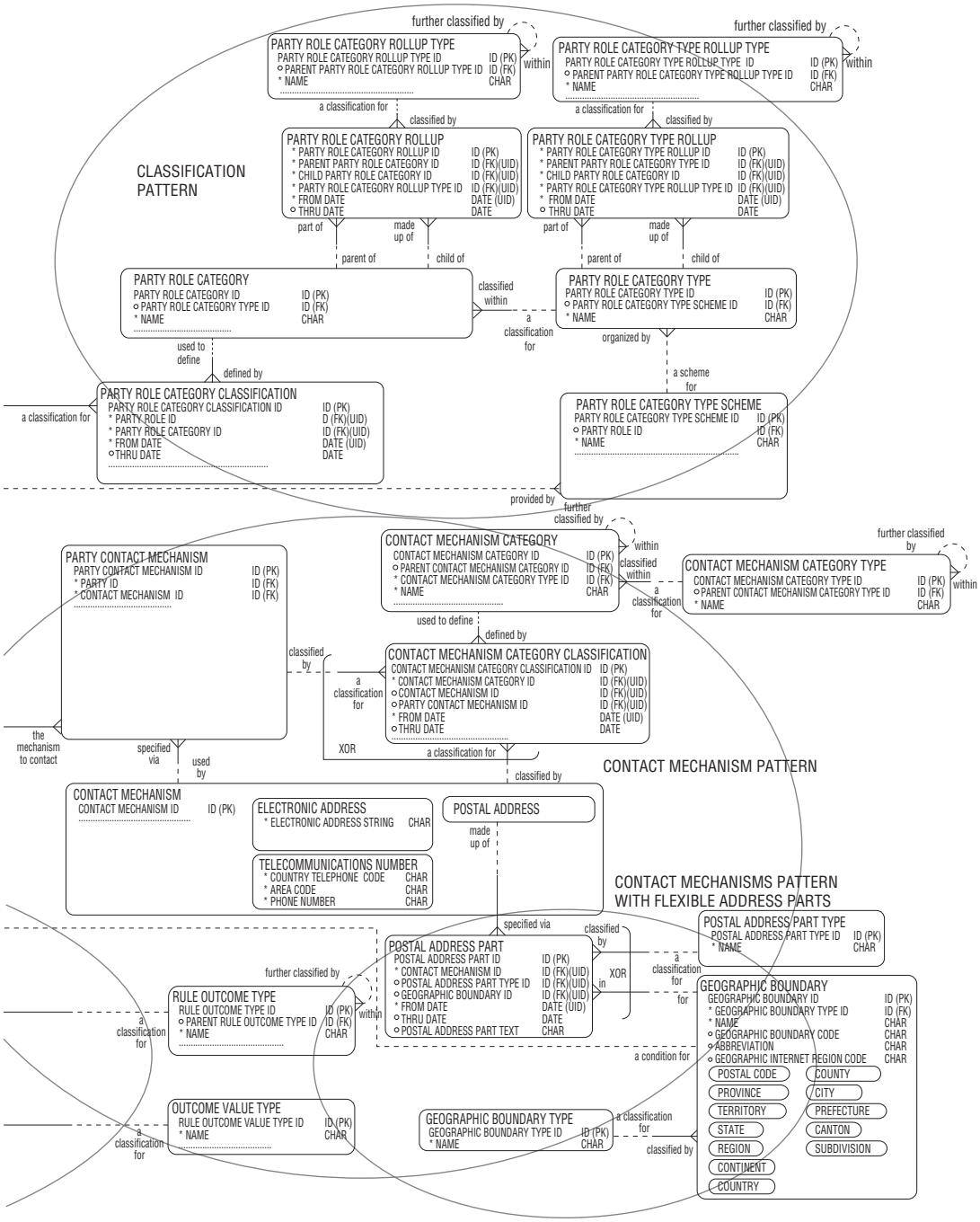


Figure 9-8 Master data management data model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within
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classified by
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CHILD PARTY ROLE CATEGORY ID ID (FK)(UID)
PARTY ROLE CATEGORY ROLLUP TYPE ID ID (FK)(UID)
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THRU DATE DATE
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made up of
parent of
child of
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NAME CHAR
classified within
a classification for
used to define
defined by
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PARTY ROLE CATEGORY ID ID (FK)(UID)
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PARTY ROLE CATEGORY TYPE ROLLUP TYPE ID ID (FK)(UID)
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NAME CHAR
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a scheme for
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NAME CHAR
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CONTACT MECHANISM ID ID (FK)(UID)
PARTY CONTACT MECHANISM ID ID (FK)(UID)
FROM DATE DATE (UID)
THRU DATE DATE
XOR
the mechanism to contact
specified via
used by
CONTACT MECHANISMS PATTERN WITH FLEXIBLE ADDRESS PARTS
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COUNTRY TELEPHONE CODE CHAR
AREA CODE CHAR
PHONE NUMBER CHAR
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XOR
in
GEOGRAPHIC BOUNDARY
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GEOGRAPHIC BOUNDARY TYPE ID ID (FK)
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GEOGRAPHIC BOUNDARY CODE CHAR
ABBREVIATION CHAR
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CITY
TERRITORY
PREFECTURE
STATE
CANTON
REGION
SUBDIVISION
CONTINENT
COUNTRY
a condition for
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PARENT RULE OUTCOME TYPE ID ID (FK)
NAME CHAR
OUTCOME VALUE TYPE
RULE OUTCOME VALUE TYPE ID ID (PK)
NAME CHAR
GEOGRAPHIC BOUNDARY TYPE
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