On entity resolution in probabilistic data

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Appendix B

The Courses Dataset

This chapter contains the specification of the Courses dataset, which is used for the experiments of Chapter 6.

The Courses dataset contains 17 single-table schemas as follows. Notice that the primary keys are underlined, and $F_i$ is the set of functional dependencies of schema $S_i$, where the functional dependencies that are related to the primary keys are omitted.

$S_1(semester, course, title, instructor, time, room)$

$F_1 = \{course \rightarrow title\}$

$S_2 = (semester, course#, call#, name, instructor, days, time, room)$

$F_2 = \{course# \rightarrow name\}$

$S_3 = (semester, course, sec#, code#, room#, time, days, units, instructor)$

$F_3 = \{code# \rightarrow \{room#, time, days, units, instructor\}\}$

$S_4 = (semester, course, crn, time, day, instructor, room, units, title)$

$F_4 = \{course \rightarrow \{units, title\}\}$

$S_5 = (semester, course#, course, sched#, days, time, location, instructor)$

$F_5 = \{course# \rightarrow course\}$
Appendix B. The Courses Dataset

\[
S_6 = (\text{term, coursesubject, coursenumber, sectionID, R, MeetingType, section, days, time, building, room, instructor, seats-available, seats-limit, course}\_\text{name})
\]

\[
F_6 = \{\text{coursesubject, coursenumber} \rightarrow \text{course}\_\text{name}\}
\]

\[
S_7 = (\text{semester, year, course-abbr-num, sec-num, avl, enr\_cnt, type, course-title, hr-cr, time-begin, time-end, days, room, building, special-enrollment, instructor})
\]

\[
F_7 = \{\text{course-abbr-num} \rightarrow \{\text{type, course-title, hr-cr}\}\}
\]

\[
S_8 = (\text{semester, course\#}, \text{ug, coursename, teacher, day, hour, place, comment})
\]

\[
F_8 = \{\text{course\#} \rightarrow \text{coursename}\}
\]

\[
S_9 = (\text{term, course, subject, instructor, time, room, units, grade})
\]

\[
F_9 = \{\text{course} \rightarrow \text{subject}\}
\]

\[
S_{10} = (\text{semester, course, title, units, lec/sec, days, begin, end, bldg, room, instructors})
\]

\[
F_{10} = \{\text{course} \rightarrow \text{title}\}
\]

\[
S_{11} = (\text{semester, dept, course\#, course, instructor, day, time, room})
\]

\[
F_{11} = \{\{\text{dept, course\#}\} \rightarrow \text{course}\}
\]

\[
S_{12} = (\text{semester, code, sec, course, time, days, cr, room, instructor})
\]

\[
F_{12} = \{\text{code} \rightarrow \text{course}\}
\]

\[
S_{13} = (\text{semester, coursecode, class, coursename, remark, instructor, time, building, roomnumber, requiredorelective, numberofstudents})
\]

\[
F_{13} = \{\text{coursecode} \rightarrow \text{coursename}\}
\]

\[
S_{14} = (\text{semester, course, sec, coursename, days, time, cr, instructor})
\]

\[
F_{14} = \{\text{course} \rightarrow \text{coursename}\}
\]
\[ S_{15} = (\text{semester, course\#}, \text{section\#}, \text{coursename}, \text{cal\#}, \text{days, times, room, status, max, now, instructor, credits}) \]

\[ F_{15} = \{ \text{course\#} \rightarrow \text{coursename} \} \]

\[ S_{16} = (\text{semester, coursenumber, coursetitle, cr, days, time, bldg, room, insr, ref}) \]

\[ F_{16} = \{ \text{coursenumber} \rightarrow \text{coursetitle} \} \]

\[ S_{17} = (\text{term, class\#, title, location, day, times, instructors, status}) \]

\[ F_{17} = \{ \text{class\#} \rightarrow \text{title} \} \]