Schema(attributes)

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| **Student** | Student\_id | Name.first | Name.middle | Name.last | SSN | Residency | Enrollment\_status |

Shows the basic info of a student in UCSD. Name.middle is optional. Residency could be either CA resident, out-of-state US resident, or foreign. Enrollment\_status is a flag: it has value 1 if a student is currently enrolled and 0 otherwise.

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| **Degree\_held** | Student\_id | Type | Institution |

Shows the degrees a student held before entering in UCSD.

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| **Period\_attend** | Student\_id | Date.start | Date.end |

Shows the period of attendance of a student.

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| **Probation** | Student\_id | Date.start | Date.end | Reason |

Shows the period of a probation and the reason of a probation.

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| **Undergraduate** | Student\_id | College |

Every undergraduate student has a college affiliation.

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| **Major** | Student\_id | Major.name | Major.number |

Every undergraduate student has at least one major.

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| **Minor** | Student\_id | Minor.name | Minor.number |

Undergraduates could have minors.

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| **Graduate** | Student\_id |

Every Graduate student belongs to a department. Department is a foreign key to Department.name.

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| **GraduateBelongstoDept** | Student\_id | Dept (FK referencing department) |

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| **MS** | Student\_id | BSMS |

BSMS attribute is used as a flag: if a student gets admitted to the 5-year program, then BSMS has a value 1, otherwise is 0.

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| **PHD** | Student\_id |

Shows all students who are pursuing PHD degree. A Phd student is either a candidate or a precandiate.

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| **Pre\_candidacy** | Student\_id |

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| **Candidate** | Student\_id |

Each PHD candidate has an advisor.

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| **Advise** | Student\_id | Faculty\_Name |

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| **Course** | Course\_id | Grading | Unit\_min | Unit\_max | Lab | Consent\_of\_instructor |

Course\_id uniquely identifies a course offered in UCSD. Grading can be either Letter or S/U or both. A course could be taken for a range of units from Unit\_min to Unit\_max. If a course can only be taken for a fixed number of units, then Unit\_min = Unit\_max. Lab is a flag: it has value 1 if a course requires lab work and 0 otherwise. Consent\_of\_instructor is a flag: it has value 1 if a course requires consent from a instructor and 0 otherwise.

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| **History\_id** | Course\_id | Old\_id | Until\_year |

Shows the history of course ids that had been used before.

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| **Prerequisite** | Before\_course\_id | After\_course\_id |

Shows the prerequisites a course requires before taking this course. Before\_course\_id and After\_course\_id are foreign keys to Course.course\_id.

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| **Class** | Course\_id | Section\_id | Title | Quarter | Year | Enrollment\_limit | Instructor |

Shows classes offered at a specific quarter/year. Each class may have several sections and each section has its enrollment\_limit and instructor.

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| **Meeting** | Course\_id | Section\_id | Type | Time.start | Time.end | Weekday | Date | Room | Building | Mandatory |

Type could be LE, DI, review sessions, etc. For meetings that have regular weekly schedule, leave the Date attribute null. For meetings that happen irregularly, such as review sessions, fill in both the Weekday and Date attributes. Mandatory is a flag: it has value 1 if a section requires mandatory attendance and 0 otherwise. Allows only one meeting type per course\_id, section\_id. Max one meeting type perday for every course\_id, section\_id.

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| **Faculty** | Name | title |

Shows the faculty’s name and title (professor, lecturer, etc.)

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| **Department** | Name | location |

Shows the department’s name and location.

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| **Degree** | Degree\_id | Total\_unit |

Shows the degree and its required minimum total unit Total\_unit. Each degree has an id that uniquely identifies a degree.

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| **Requirement** | Degree\_id | Category | Min\_unit | Min\_grade |

Each degree has its own requirement of different categories (lower division, upper division, GE, etc).

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| **Concentration** | Degree\_id | Name |

Each concentration has a name.

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| **Course\_list** | Degree\_id | Name | List |

Each concentration has its required courses. List is a foreign key to Course.course\_id.

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| **Has\_concentration** | Degree\_id | Concentration.name |

Graduate students have concentrations.

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| **Have\_taken** | Student\_id | Section\_id | Grade | Incomplete |

Shows classes a student has taken prior to current quarter. Incomplete is a flag: it has value 1 if a student did not have a grade (either letter or s/u).

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| **Enrolled** | Student\_id | Section\_id | Grading |

Shows classes a student is currently enrolled in grading option of choice among available options the course allows.

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| **Waitlist** | Student\_id | Section\_id | Position |

Shows classes a student is currently waitlisted and the waitlist position.

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| **Thesis\_Committee** | Student\_id | Faculty.name | Thesis.name |

Master students have their thesis committee. Phd students have to have at least one professor form another department.

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| **Audit** | Student\_id | Degree\_id | Current\_unit | Status |

Shows the current unit completed and current status (active or inactive).

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| **Have\_taught** | Faculty.name | Class.Section\_id |

Shows classes a faculty taught in the past.

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| **Teaching** | Faculty.name | Class.Section\_id |

Shows classes a faculty is currently teaching.

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| **Plan** | Faculty.name | Class.Section\_id |

Shows classes a faculty plan to teach in the future.

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| **Works\_at** | Faculty.name | Department.name |

Each faculty works at a department.

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| **Belongs\_to** | Course.course\_id | Department.name |

Each course belongs to a department.

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| **Parking\_lot** | Lot\_id | Name | Reservation\_limit | Location |

Shows all the parking lots on UCSD campus and the limit of reserved parking space in each parking lot.

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| **Reserved** | Parking\_lot.Lot\_id | Faculty.name | Space\_id | Date.start | Date.end |

Reserved parking spaces are assigned to faculties. Each faculty can have at most 1 assigned parking space. And each reserved parking space has a start and expiration date. Faculty.name is a foreign key to Faculty.name.