

# Student Database Schema

## Table and Column Descriptions

COURSE: Information for a course

COLUMN NAME	NULL	TYPE	DESCRIPTION
COURSE_NO	NOT NULL	NUMBER(8, 0)	The unique course number
DESCRIPTION	NULL	VARCHAR2(50)	The full name of this course
COST	NULL	NUMBER(9,2)	The dollar amount charged for enrollment in this course
PREREQUISITE	NULL	NUMBER(8, 0)	The ID number of the course that must be taken as a prerequisite to this course
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

SECTION: Information for an individual section (class) of a particular course

COLUMN NAME	NULL	TYPE	DESCRIPTION
SECTION_ID	NOT NULL	NUMBER(8,0)	The unique ID for a section
COURSE_NO	NOT NULL	NUMBER(8,0)	The course number for which this is a section
SECTION_NO	NOT NULL	NUMBER(3)	The individual section number within this course
START_DATE_TIME	NULL	DATE	The date and time when this section meets
LOCATION	NULL	VARCHAR2(50)	The meeting room for the section
INSTRUCTOR_ID	NOT NULL	NUMBER(8,0)	The ID number of the instructor who teaches this section

SECTION: Information for an individual section (class) of a particular course (continued)

COLUMN NAME	NULL	TYPE	DESCRIPTION
CAPACITY	NULL	NUMBER(3,0)	The maximum number of students allowed in this section
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

STUDENT: Profile information for a student

COLUMN NAME	NULL	TYPE	DESCRIPTION
STUDENT_ID	NOT NULL	NUMBER(8,0)	A unique ID for the student
SALUTATION	NULL	VARCHAR2(5)	This student's title (Ms., Mr., Dr.)
FIRST_NAME	NULL	VARCHAR2(25)	This student's first name
LAST_NAME	NOT NULL	VARCHAR2(25)	This student's last name
STREET_ADDRESS	NULL	VARCHAR2(50)	This student's street address
ZIP	NOT NULL	VARCHAR2(5)	This student's zip code
PHONE	NULL	VARCHAR2(15)	This student's phone number, including area code
EMPLOYER	NULL	VARCHAR2(50)	The name of the company where this student is employed
REGISTRATION_DATE	NOT NULL	DATE	The date this student registered in the program
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

ENROLLMENT: Information for a student registered for a particular section of a particular course (class)

COLUMN NAME	NULL	TYPE	DESCRIPTION
STUDENT_ID	NOT NULL	NUMBER(8,0)	The ID for a student
SECTION_ID	NOT NULL	NUMBER(8,0)	The ID for a section
ENROLL_DATE	NOT NULL	DATE	The date this student registered for this section

COLUMN NAME	NULL	TYPE	DESCRIPTION
FINAL_GRADE	NULL	NUMBER(3,0)	The final grade given to this student for all the work in this section (class)
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

INSTRUCTOR: Profile information for an instructor

COLUMN NAME	NULL	TYPE	DESCRIPTION
INSTRUCTOR_ID	NOT NULL	NUMBER(8)	The unique ID for an instructor
SALUTATION	NULL	VARCHAR2(5)	This instructor's title (Mr., Ms., Dr., Rev.)
FIRST_NAME	NULL	VARCHAR2(25)	This instructor's first name
LAST_NAME	NULL	VARCHAR2(25)	This instructor's last name
STREET_ADDRESS	NULL	VARCHAR2(50)	This instructor's street address
ZIP	NULL	VARCHAR2(5)	This instructor's zip code
PHONE	NULL	VARCHAR2(15)	This instructor's phone number, including area code
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

ZIPCODE: City, state, and zip code information

COLUMN NAME	NULL	TYPE	DESCRIPTION
ZIP	NOT NULL	VARCHAR2(5)	The zip code, unique for a city and state
CITY	NULL	VARCHAR2(25)	The city name for this zip code
STATE	NULL	VARCHAR2(2)	The postal abbreviation for the U.S. state
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

GRADE\_TYPE: Lookup table of a grade type (code) and its description

COLUMN NAME	NULL	TYPE	DESCRIPTION
GRADE_TYPE_CODE	NOT NULL	CHAR(2)	The unique code that identifies a category of grade (such as MT or HW)
DESCRIPTION	NOT NULL	VARCHAR2(50)	The description for this code (such as Midterm or Homework)
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

GRADE\_TYPE\_WEIGHT: Information on how the final grade for a particular section is computed; for example, the midterm constitutes 50%, the quiz 10%, and the final examination 40% of the final grade

COLUMN NAME	NULL	TYPE	DESCRIPTION
SECTION_ID	NOT NULL	NUMBER(8)	The ID for a section
GRADE_TYPE_CODE	NOT NULL	CHAR(2)	The code that identifies a category of grade
NUMBER_PER_SECTION	NOT NULL	NUMBER(3)	How many of these grade types can be used in this section (for example, there may be three quizzes)
PERCENT_OF_FINAL_GRADE	NOT NULL	NUMBER(3)	The percentage that this category of grade contributes to the final grade
DROP_LOWEST	NOT NULL	CHAR(1)	Is the lowest grade in this type removed when determining the final grade? (Y/N)
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

GRADE: The individual grades a student received for a particular section (class)

COLUMN NAME	NULL	TYPE	DESCRIPTION
STUDENT_ID	NOT NULL	NUMBER(8)	The ID for a student
SECTION_ID	NOT NULL	NUMBER(8)	The ID for a section
GRADE_TYPE_CODE	NOT NULL	CHAR(2)	The code that identifies a category of grade
GRADE_CODE_OCCURRENCE	NOT NULL	NUMBER(38)	The sequence number of one grade type for one section. For example, there could be multiple assignments numbered 1, 2, 3, and so on.
NUMERIC_GRADE	NOT NULL	NUMBER(3)	Numeric grade value (such as 70 or 75)
COMMENTS	NULL	VARCHAR2(2000)	Instructor's comments on this grade
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update

GRADE\_CONVERSION: Converts a number grade to a letter grade

COLUMN NAME	NULL	TYPE	DESCRIPTION
LETTER_GRADE	NOT NULL	VARCHAR(2)	The unique grade as a letter (A, A–, B+, B, and so on)
GRADE_POINT	NOT NULL	NUMBER(3,2)	The number grade on a scale from 0 (F) to 4 (A)
MAX_GRADE	NOT NULL	NUMBER(3)	The highest grade number that corresponds to this letter grade
MIN_GRADE	NOT NULL	NUMBER(3)	The lowest grade number that corresponds to this letter grade
CREATED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who inserted data
CREATED_DATE	NOT NULL	DATE	Audit column—indicates the date of insertion
MODIFIED_BY	NOT NULL	VARCHAR2(30)	Audit column—indicates who made the last update
MODIFIED_DATE	NOT NULL	DATE	Audit column—date of the last update