

Ву

Team 48

Team Members:

Vikram Malik - 2019287 Vidhi Sharma - 2019286 Priyansh - 2019078 Ashmeet Singh - 2019412 Raghav Bhalla - 2019379

Relational schema

Course

ID: INT, NOT NULL, UNIQUE, primary key

COURSE_ID: VARCHAR(10), NOT NULL

NAME: VARCHAR(30), NOT NULL, UNIQUE

CREDIT: INT, NOT NULL, CHECK(CREDIT >= 1 AND CREDIT <= 4)
LEVEL: INT NOT NULL, CHECK(LEVEL >= 1 AND LEVEL <= 3)

INFO: VARCHAR(1024)

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Student

ID: INT, NOT NULL ,UNIQUE,FOREIGN KEY(ID) REFERENCES

USERS(ID)

AGE: INT, NOT NULL

DOB: VARCHAR(10), NOT NULL **QUALIFICATIONS**: varchar(20), NOT NULL **GUARDIAN_NAME**: VARCHAR(50), NOT NULL

GENDER: VARCHAR(1), NOT NULL, CHECK(GENDER = 'M' OR GENDER = 'F'

OR GENDER = 'O')

University

ID: INT, NOT NULL, UNIQUE, FOREIGN KEY REFERENCES

USERS(ID)

LOCATION: VARCHAR(50), NOT NULL

INFO: VARCHAR(1024)
EDUCAMP_RANKING: INT, NOT NULL

Users

ID: INT, NOT NULL, UNIQUE
NAME: VARCHAR(50, NOT NULL

EMAIL: VARCHAR(50), PRIMARY KEY, NOT NULL UNIQUE

PASSWORD: VARCHAR(50), NOT NULL

Professor

ID: INT, NOT NULL, UNIQUE, FOREIGN KEY(ID) REFERENCES

USERS(ID)

QUALIFICATIONS: VARCHAR(50), NOT NULL **OFFICE_HOURS**: VARCHAR(50), NOT NULL

Private_tutor

ID: INT, NOT NULL, UNIQUE, FOREIGN KEY REFERENCES USERS(ID)
COURSE_ID: INT, NOT NULL, UNIQUE, FOREIGN KEY REFERENCES COURSE(ID)

QUALIFICATIONS: VARCHAR(50), NOT NULL FEES: INT, NOT NULL, CHECK(FEES >= 1000) Teaching assistant ID: INT. NOT NULL, UNIQUE, FOREIGN KEY(ID) REFERENCES USERS(ID) COURSE_ID: INT, NOT NULL, UNIQUE, FOREIGN KEY(COURSE_ID) REFERENCES COURSE(ID) OFFICE_HOURS: VARCHAR(50), NOT NULL, University_Data (belongs to,teaches,taught by)

COURSE ID: INT NOT NULL UNIQUE.FOREIGN KEY REFERENCES COURSE(ID) PROFESSOR_ID: INT NOT NULL UNIQUE, FOREIGN KEY REFERENCES PROFESSOR(ID) UNIVERSITY_ID: INT NOT NULL, FOREIGN KEY REFERENCES UNIVERSITY(ID)

Course data (enrolls, taught by)

COURSE ID: INT, NOT NULL, UNIQUE, FOREIGN KEY (COURSE ID) REFERENCES COURSE(ID)

STUDENT_ID: INT , NOT NULL, UNIQUE, FOREIGN KEY(STUDENT ID) REFERENCES STUDENT(ID)

GRADE: INT, CHECK(GRADE >=0 AND GRADE <=10),

INT CHECK(YEAR>1900),

Course_Pre_requisites (pre-requires)

COURSE ID: INT, NOT NULL, FOREIGN KEY REFERENCES

COURSE(ID)

PRE REQUISITE COURSE ID: INT, NOT NULL, FOREIGN KEY REFERENCES COURSE(ID)

Teaching_Assistant_Data (graded_by,assists)
TEACHING_ASSISTANT_ID: INT, NOT NULL, FOREIGN KEY REFERENCES TEACHING_ASSISTANT(ID)
PROFESSOR_ID: INT, NOT NULL, FOREIGN KEY REFERENCES PROFESSOR(ID) STUDENT_ID: INT, NOT NULL, FOREIGN KEY REFERENCES STUDENT(ID)

Private_tutor_data (gives_tution)
PRIVATE_TUTOR_ID: INT, NOT NULL, FOREIGN KEY REFERENCES PRIVATE TUTOR(ID)
STUDENT_ID: INT, NOT NULL, FOREIGN KEY REFERENCES STUDENT(ID)

Administrator
ID: INT, NOT NULL, UNIQUE, FOREIGN KEY REFERENCES USERS(ID)
