# SQL Schema

## Notes

General Assumptions:

ID -> INT AUTO\_INCREMENT

referencing ID -> INT NOT NULL

short string -> VARCHAR(30)

mid string -> VARCHAR(50)

long string -> VARCHAR(70)

description -> VARCHAR(300)

money -> NUMERIC(12, 2) OR NUMERIC(8, 2)

% -> NUMERIC(5, 2)

date -> DATE

URL -> VARCHAR(1024)

Special Cases:

membership\_type -> ENUM('BRZ', 'SLV', 'GLD')

refund\_request -> BOOLEAN

duration -> TIME

lecture\_content -> BLOB NOT NULL

membership\_type -> ENUM('BRZ', 'SLV', 'GLD') NOT NULL DEFAULT 'BRZ'

answer -> ENUM(1, 2, 3, 4) NOT NULL DEFAULT 1

## Relational Model

**Student**(SID, name, e\_mail, password, membership\_type)

**Instructor**(IID, name, e\_mail, password)

**Admin**(AID, name, e\_mail, password, salary)

**Course**(CID, course\_name, description, category, level, cost, discount\_allowed, certificate\_threshold, creator\_IID)

**Lecture**(CID, Lec\_ID, title, lecture\_content, duration, date)

**Quiz**(CID, QID, title, date)

**Quiz\_Question**(CID, QID, question\_num, question\_text, choice1, choice2, choice3, choice4, answer)

**Note**(Note\_ID, SID, Lec\_ID, time, text)

**Course\_Announcement**(Ann\_ID, IID, CID, date, subject\_name, text)

**QandA\_Entry**(QandA\_ID, subject\_name, text, date)

**Complaint\_Entry**(Complaint\_ID, subject\_name, text, date, refund\_request)

**Enrolls**(SID, CID, progress, rating)

**Wishlist**(SID, CID, date)

**Certificate**(SID, CID, date)

**QandA\_Post\_Student**(QandA\_ID, SID, CID)

**QandA\_Post\_Instructor**(QandA\_ID, IID, CID)

**Complaint\_Post\_Instructor**(Complaint\_ID, IID, CID)

**Complaint\_Post\_Student**(Complaint\_ID, SID, CID)

**Teaches**(IID, CID)

**Evaluates**(AID, Complaint\_ID)

**Discount**(AID, CID, rate)

**Zoom\_Session**(Session\_ID, IID, CID, invite\_link, date);

**Take\_Quiz**(SID, CID, QID, grade)