IFT 598: Middleware Prog & Database Sec (2022 Fall)

Module 3 Assignment: ERD Diagram

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We have 3 entities:

Diagram

Description automatically generated

Course: Course\_id(PK), Course\_name, Instructor, Class\_number.

Student: Student\_id(PK), Student\_name, Student\_program, Date\_of\_birth, Course\_id(FK)

Contact: Student\_id(FK), Given\_name, Last\_name, Contact\_number, Address, City, Zip\_code, Country, Mail\_id(PK).

PK – Primary key.

FK – Foreign key.

* Course and student entities are related with Course\_id which is primary key for Course entity and foreign key for Student Entity.
* Student and contact entities are related with Student\_id which is the primary key for Student Entity and foreign key for Course Entity.

**Cardinality:**

Diagram

Description automatically generated with medium confidence

* Student and contact entity has (One) cardinality at contact’s end which infers that Student should have one contact.
* Student and contact entity has (One and only one) cardinality at student’s end which infers contact should map exactly one student.
* Course and student entity has (Zero or many) cardinality at student’s end which infers that a course can have 0 or many students registered.
* Course and student entity has(One or Many) cardinality at course’s end which infers a student can be registered in one or many courses.

**Project Cost:**

* Project break down three parts: Couse, Student, Contact.
* Time taken to complete: Four days (2 Days – Development, 2 Days - Debugging)
* Number of people required to complete the project: 2 people (1 Development, 1 Tetsing)
* Cost:
  + Direct – Cost to hire Employee
  + Indirect – Insurance etc.

**Project Risk:**

* The meaning of risk assessment is to identify, assess, and control hazards and risks.
* Things to determine to estimate the risk:
  + Risk Event
  + Risk Timeframe
  + Probability
  + Impact
  + Factors