ERD

CounselingService

PK	UniqueID
	CSFocus

CriminalRecord

PK	CR
	CRType
	CRCommittedDate
	CRSentenceDate
	CRSentenceLength

Hours — Uses

Has

Client

PK	ClientID
	ClientName
	ClientGender
	ClientAge
	ClientEntryDate

ApplicationDate   ApplicationStatus

JobOpening

PK	JobID
	JobTitle
	JobCompany
	JobHourlyWage

Applies

Mentors

Completed

DateCompleted

CourseGrade

BehGrade

Course

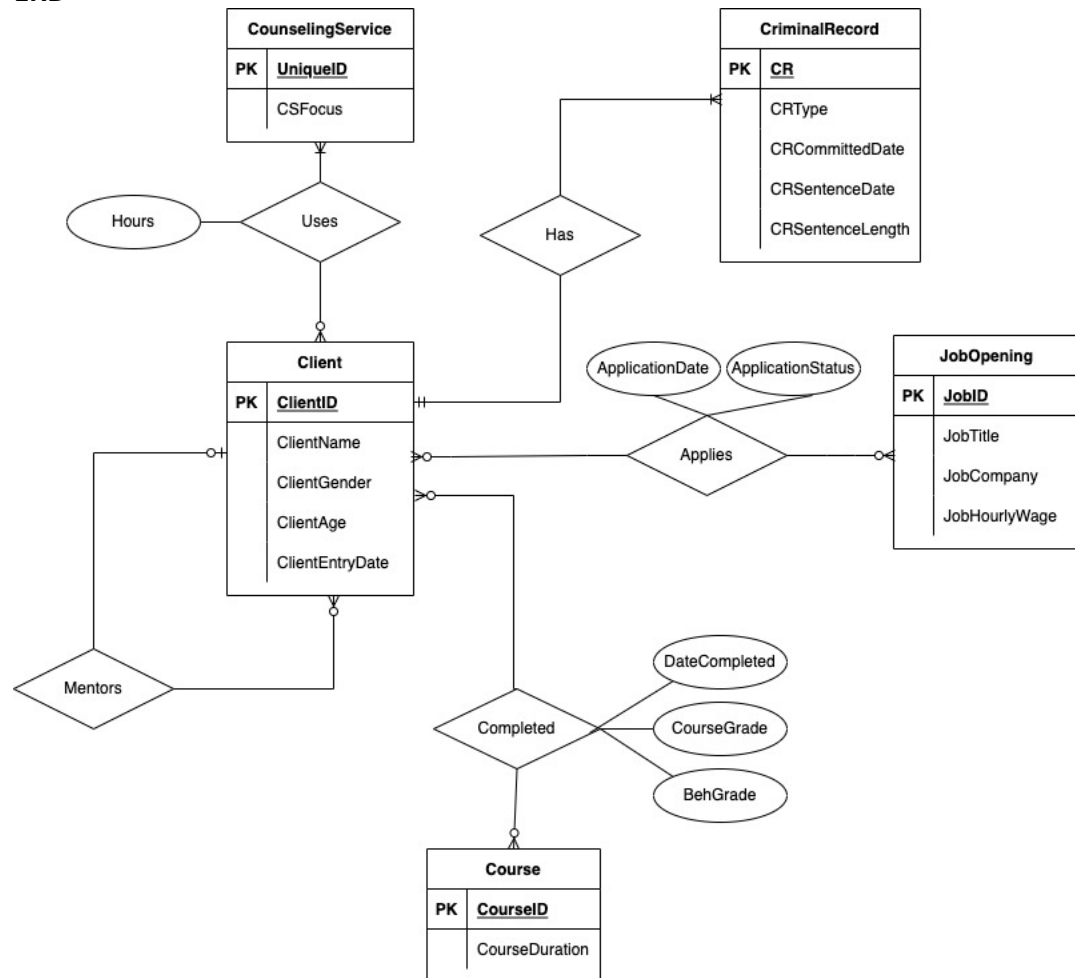| PK	CourseID
	CourseDuration

Logical Design:

Client (<u>ClientID</u>, ClientFName, ClientLName, ClientGen, ClientEntryDate, *MentorID*)

CounselingService (<u>CSID</u>, CSFocus)

CounselingUse (<u>CUID</u>, *ClientID*, *CSID,* CUHrs)

CriminalRecord (<u>CRecID</u>, CRecType, CRecDesc. CRecCommDate, CRecSentDate, CRecSentLen,
      ClientID)

JobOpening (<u>JobID</u>, JobTitle, CompanyName, JobHourlyWage)

JobAppliication (<u>JAID</u>, *ClientID*, *JobID*, JAAppDate, JAAppStatus)

Course (<u>CrsID</u>, CrsDur)

CourseCompletion (<u>CrsCmplID</u>, *ClientID*, *CrsID*, CrsCmplDateCompleted, CrsComplCourseGrade,
      CrsCmplBehGrade)

Physical Design:

```
CREATE TABLE Client (
        ClientID CHAR(5) PRIMARY KEY,
        ClientFName VARCHAR(40) NOT NULL,
        ClientLName VARCHAR(40) NOT NULL,
        ClientGen CHAR(1),
        ClientEntryDate DATE,
        MentorID CHAR(5),
        FOREIGN KEY (MentorID)
                REFERENCES Client (ClientID)
                ON DELETE SET NULL)

CREATE TABLE CounselingService (
        CSID CHAR(5) PRIMARY KEY,
        CSFocus VARCHAR(40))

CREATE TABLE  CounselingUse (
        CUID CHAR(5) PRIMARY KEY,
        CUHrs TIME,
        ClientID CHAR(5),
        CSID CHAR(5),
        FOREIGN KEY (CSID)
                REFERENCES CounselingService (CSID),
        FOREIGN KEY (ClientID)
                REFERENCES Client (ClientID))

CREATE TABLE CriminalRecord (
        CRecID CHAR(5) PRIMARY KEY,
        CRecType VARCHAR(25),
        CRecDesc TEXT,
        CRecCommDate DATE,
        CRecSentDate DATE,
        CRecSentLen  INT,
        ClientID CHAR(5)
        FOREIGN KEY (ClientID)
                REFERENCES Client (ClientID))

CREATE TABLE JobOpening (
        JobID CHAR(5) PRIMARY KEY,
        Company VARCHAR(30),
        JobTitle VARCHAR(50),
        JobHourlyWage FLOAT)
```

```sql
CREATE TABLE JobApplication (
        JAID CHAR(5) PRIMARY KEY,
        JAAppDate DATE,
        JAAppStatus VARCHAR(15),
        ClientID CHAR(5),
        JobID CHAR(5),
        FOREIGN KEY (JobID)
                REFERENCES JobOpening (JobID),
        FOREIGN KEY (ClientID)
                REFERENCES Client (ClientID))

CREATE TABLE Course (
        CrsID CHAR(5) PRIMARY KEY,
        CrsDur INT)

CREATE TABLE CourseCompletion (
        CrsCmplID CHAR(5) PRIMARY KEY,
        CrsCmplDateCompleted DATE,
        CrsComplCourseGrade INT,
        CrsCmplBehGrade INT,
        ClientID CHAR(5),
        CrsID CHAR(5),
        FOREIGN KEY (CrsID)
                REFERENCES Course (CrsID),
        FOREIGN KEY (ClientID)
                REFERENCES Client (ClientID))
```