

CPCS241-Database I-Project

2<sup>nd</sup> Semester, 2023

## Hafezah Center Database

### Problem Definition and Analysis



مركز حافظه  
للإجازات القرآنية

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## PART I: Analysis

### 1 Problem definition and Data requirements

#### 1.1 Problem definition

In this project, a database is designed for the (Hafezah Women's Center) of the Khairkom Association for memorizing the Holy Quran in Jeddah that aims on publishing the Quranic Ijazah locally and globally.

Hafezah Center organizes its data through Excel sheets. Over time, the center expanded to become the largest women's center specializing in publishing frequent Quranic readings in the Kingdom of Saudi Arabia and one of the top ten centers in the world, which led to an increase in the volume of data and the difficulty of accessing it, and their need for a database that facilitates search and arrangement and saves data from loss.

The center offers the following main activities:

1. Quranic Ijazah
2. Various courses

Therefore, through our project, we will seek to design a database concerned with preserving and organizing the center's data and activities.

#### 1.2 Data Requirements

##### **Person**

There are five roles for a person in this system (Ijazah Teacher, Ijazah Student, Course Teacher, Course Student, and Committee member), It is possible for a person to perform several roles together.

Each person must have the following information:

- Serial number
- Name (first, middle, last)
- Unique ID or passport number
- Communication (Email and phone number)
- Date of birth
- Nationality
- Address (country of residence, city, neighborhood, the closest landmark to his house, house location link)

## **Ijazah**

Ijazah is a process in which a student reads the entire Holy Qur'an to a teacher, reading it in a specific Rewaiah or Qera'ah. The teacher must complete an Ijazah in the Rewaiah or Qera'ah before having a student read in this Rewaiah or Qera'ah.

Each Ijazah has the following information:

- serial number
- Rewaiah or Qera'ah type
- mechanism of the Ijazah, whether it was present or combined
- status of the Ijazah, whether it was complete, interrupted, or continuous (The part you reached)
- Notes (if any).

When Ijazah status is completed, this information is added:

- Khatm date (when the student completes the Ijazah)
- Khatm code (a code of every student that belongs to a particular teacher)
- Khatm number (serial number of the Ijazah, that counts the total number of students who had obtained an Ijazah in this center)

## **Qera'ah or Rewaiah**

This is the type of Ijazah that the Ijazah student will read, such as the Rewaiah of Hafs ann Assem and the Qera'ah of Nafie.

Each Rewaiah or Qera'ah has:

- serial number
- The name of the Rewaiah or Qera'ah

## **Evaluation test**

The evaluation test is a test that is required several times while a student is reading an Ijazah, where a committee evaluates students, gives them results, and writes notes for them.

Each evaluation test must have the following data:

- Serial number
- Day
- Date

Also, for every student who takes this test we need to know:

- Time of the test
- Evaluation type [new student, follow-up student]
- The surah where the student sope
- The teacher's feedback on the student's performance
- The committee's feedback on the student's performance

- The Results of the evaluation
- committee members who evaluated the student

Note: The committee members may change in the same evaluation test, so we need to know the members of the committee that evaluated each student separately.

## **Courses**

Hafezah center offers multiple courses such as Ijaza of reading books (Heliat Altelawa) and preparing students for Ijaza in the Quran. Each course must have the following data:

- Course serial number
- The course Type (name)
- The initiative of the courses (Each course falls within an initiative)
- Class time
- Starting date
- Ending date
- Days
- Requires interview (whether the course requires an interview or not)
- Number of lectures
- Course provider (Who is responsible for providing the course, either the Hafezah center itself or a Quran school affiliated with the Centre)

## **Initiatives**

There are various initiatives at the Hafezah center. Each initiative launches several courses.

Each initiative has the following data:

- serial number
- A unique initiative name.

## **Course type**

This is the type or the name for the courses at the center

Each course type has the following data:

- serial number
- A unique initiative name.

### 1.3 Business Rules

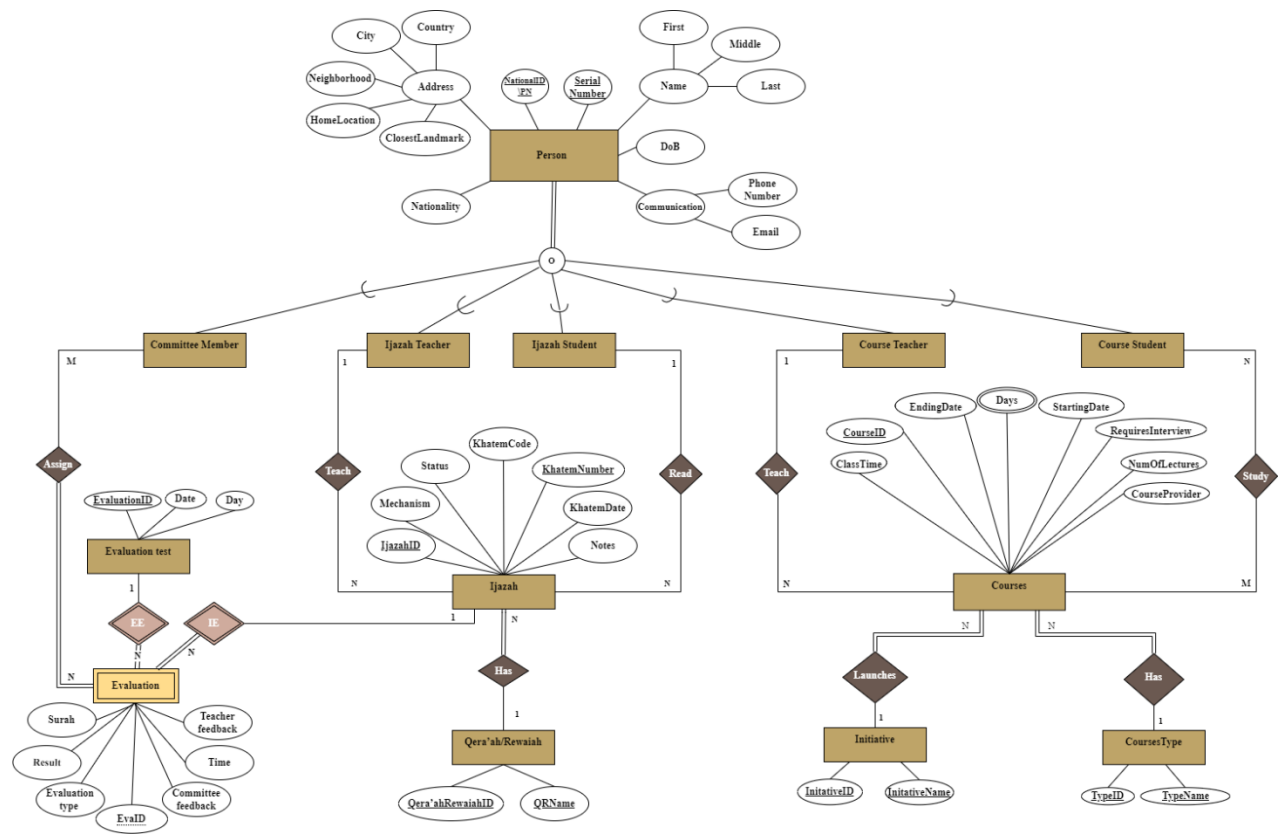
Our system follows some rules to facilitate a Hafezah center and avoid mistakes in all its parts and services:

1. Each Ijazah teacher can **teach** one Ijazah or more, and each Ijazah has only one teacher.
2. Each Ijazah student can **read** one Ijazah or more, and each Ijazah has only one student.
3. Each Ijazah **requires** several evaluations, and each evaluation evaluates one Ijazah.
4. Each evaluation test **has** several evaluations, and each evaluation belongs to one evaluation test.
5. Each committee member is **assigned** to several evaluations, and each evaluation has many committees members.
6. Each Ijazah must **have** one type of Qera'ah or Rewaiah, and each Qera'ah or Rewaiah may be assigned to several Ijazah.
7. Each course teacher can **teach** one or more courses, and each course has only one teacher.
8. Each course student can **study** one course or more, and each course has many course students.
9. Each course must **have** one course type, and each course type may be assigned to several courses.
10. Each course must be launched by an initiative, and each initiative launches several courses.

## PART II: DB DEISGN

### 2 ER Diagram Design

#### 2.1 ER diagram



To see it more clearly follow the link: <https://cutt.us/WLVJ7>

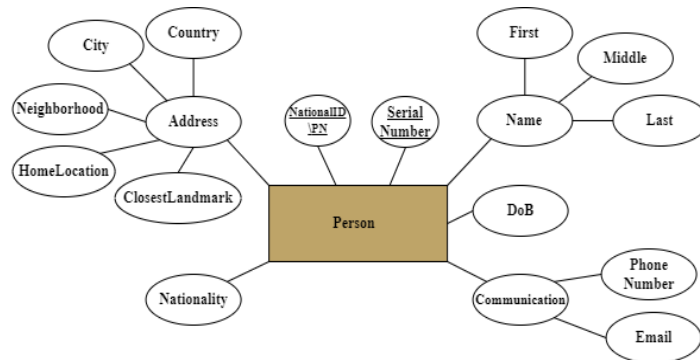


## 2.2 Design of Business Rules

Business Rule	Design Decisions	Justification (if any)
Each Ijazah teacher can <b>teach</b> one Ijazah or more, and each Ijazah has only one teacher.	Binary 1: N	Both the (Ijazah teacher sub-entity) and the (Ijazah entity) have partial participation in the relationship "Teach"
Each Ijazah student can <b>read</b> one Ijazah or more, and each Ijazah has only one student.	Binary 1: N	Both the (Ijazah student sub-entity) and the (Ijazah entity) have partial participation in the relationship "Read"
Each Ijazah <b>requires</b> several evaluations, and each evaluation evaluates one Ijazah.	Binary 1: N	The (Evaluation) entity is a weak entity since it is not needed if there is no Ijazah.
Each evaluation test <b>has</b> several evaluations, and each evaluation belongs to one evaluation test.	Binary 1: N	The (Evaluation) entity is a weak entity since it is not needed if there is no Evaluation test.
Each committee member is <b>assigned</b> to several evaluations, and each evaluation has many committee members.	Binary M: N	The (committee member sub-entity) has partial participation in the relationship "Assign" while the (evaluation) entity has total participation
Each Ijazah must <b>have</b> one type of Qera'ah or Rewaiah, and each Qera'ah or Rewaiah may be assigned to several Ijazah.	Binary 1: N	The (Ijazah type) entity has partial participation in the relationship "Has" while the (Ijazah) entity has total participation
Each course teacher can <b>teach</b> one or more courses, and each course has only one teacher.	Binary 1: N	Both the (Course Teacher sub-entity) and the (Course entity) have partial participation in the relationship "Teach"
Each course student can <b>study</b> one course or more, and each course has many course students.	Binary M: N	Both the (Course Student sub-entity) and the (Course entity) have partial participation in the relationship "Study"
Each course must <b>have</b> a one-course type, and each course type may be assigned to several courses.	Binary 1: N	The (course type) entity has partial participation in the relationship "Has" while the (course) entity has total participation
Each course must be launched by an initiative, and each initiative launches several courses.	Binary 1: N	The (initiative) entity has partial participation in the relationship "Has" while the (course) entity has total participation

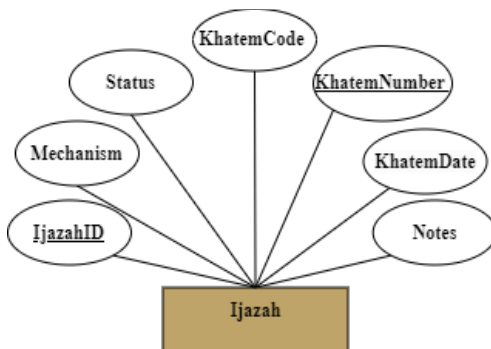
## 3 ER-to-logical schema mapping

### 3.1 Mapping of Regular Entity Types



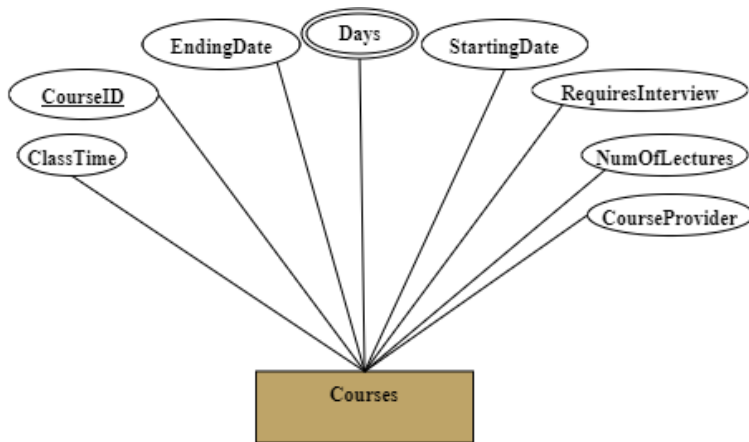
Person

<u>SerialNumber</u>	NationalID/PN	First	Middle	Last	DoB	PhoneNumber	Email	Nationality	Country	City	Neighborhood	HomeLocation	ClosestLandmark
---------------------	---------------	-------	--------	------	-----	-------------	-------	-------------	---------	------	--------------	--------------	-----------------



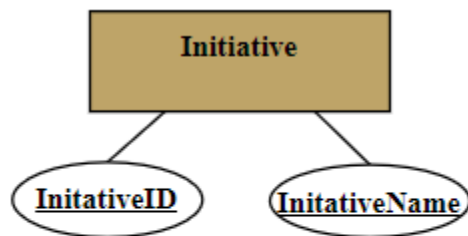
Ijazah

<u>IjazahID</u>	Mechanism	Status	KhatemCode	KhatemNumber	KhatemDate	Notes
-----------------	-----------	--------	------------	--------------	------------	-------



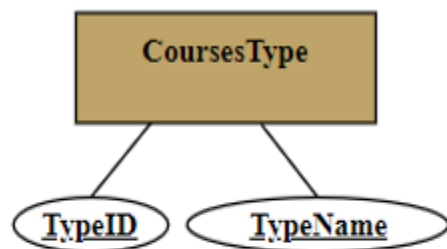
Courses

<u>CourseID</u>	ClassTime	StartingDate	EndingDate	RequiresInterview	NumOfLectures	CourseProvider
-----------------	-----------	--------------	------------	-------------------	---------------	----------------



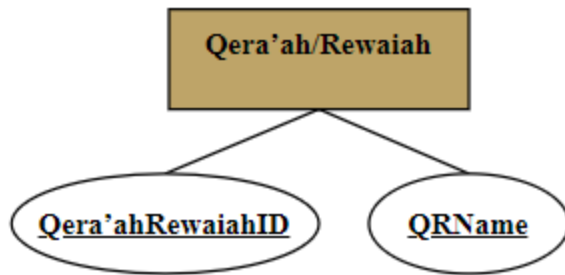
Initiatives

<u>InitiativeID</u>	QRName
---------------------	--------



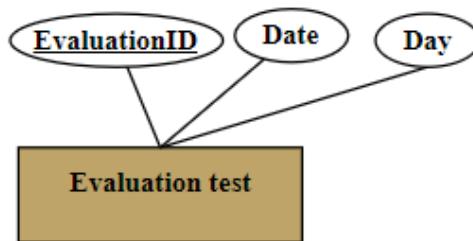
CoursesType

<u>TypeID</u>	TypeName
---------------	----------



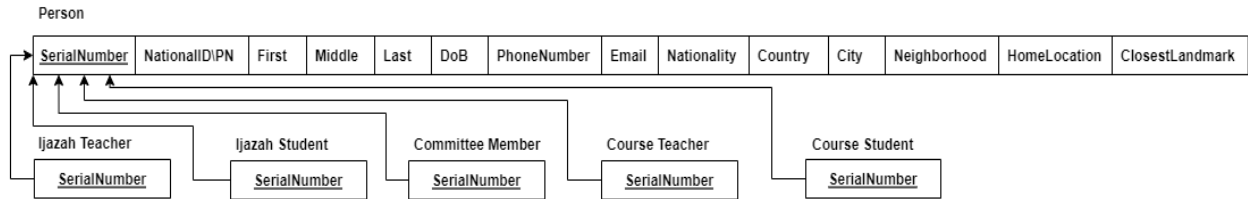
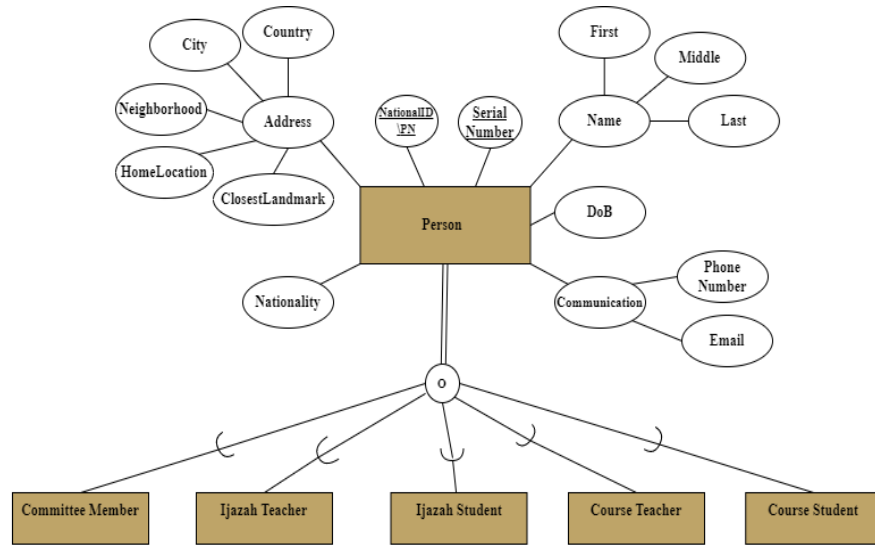
Qera'ah/Rewaiah

<u>Qera'ahRewaiahID</u>	QRName
-------------------------	--------

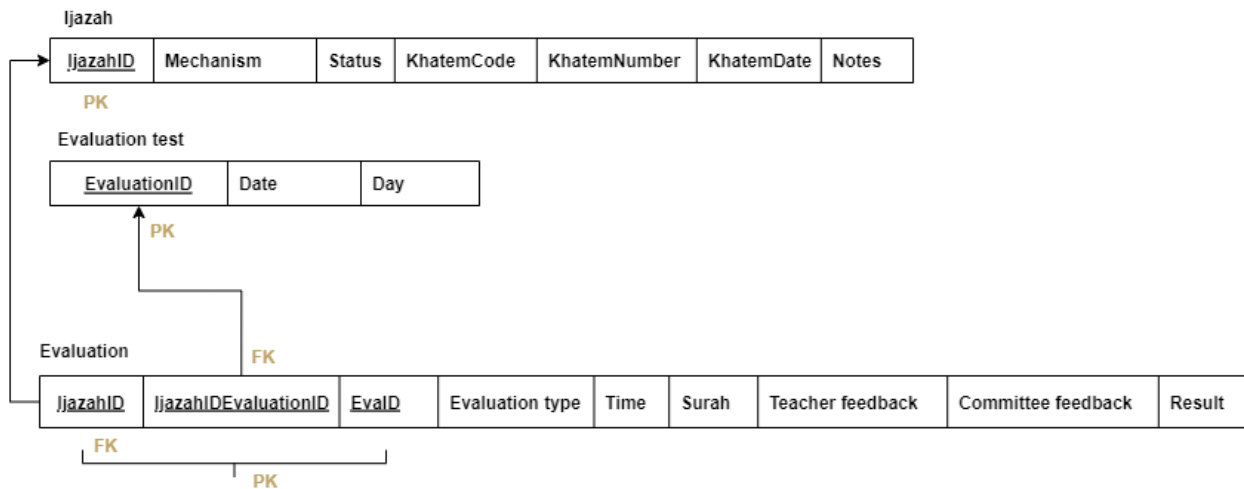
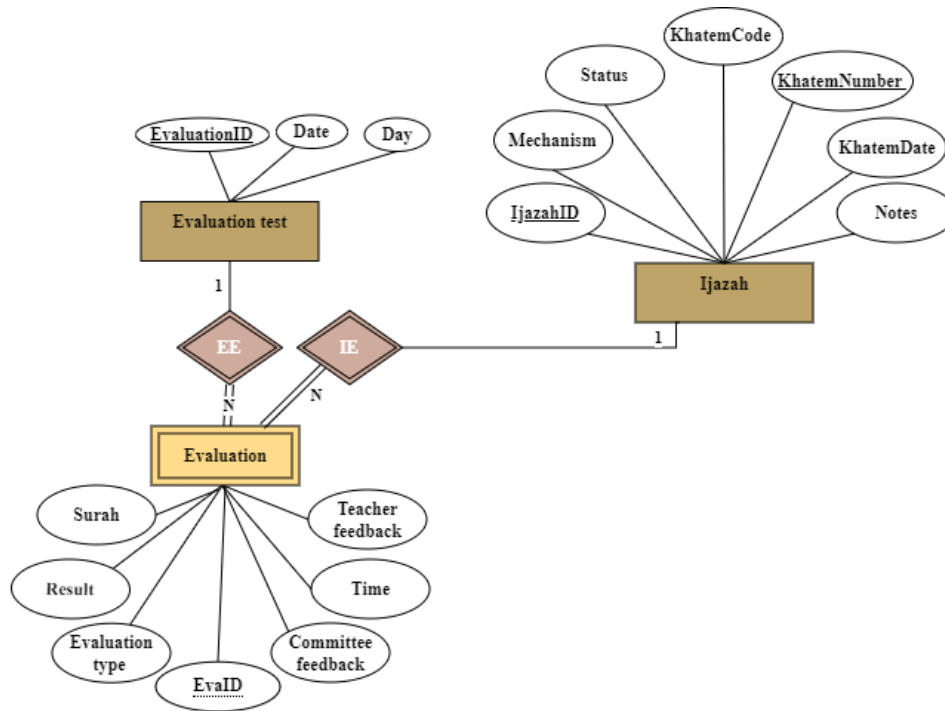


Evaluation test

<u>EvaluationID</u>	Date	Day
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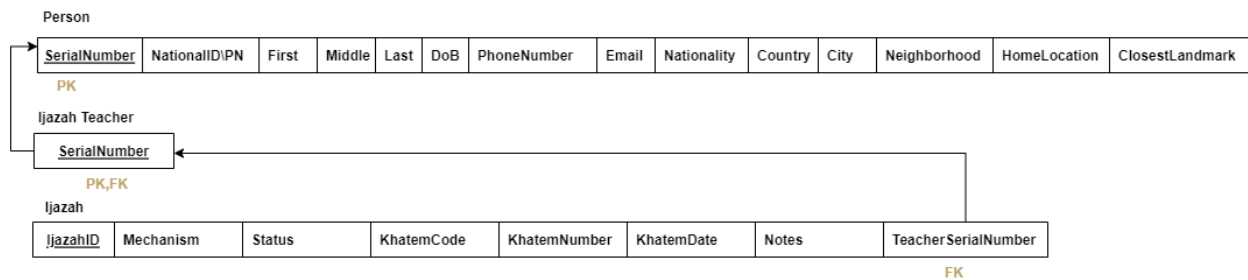
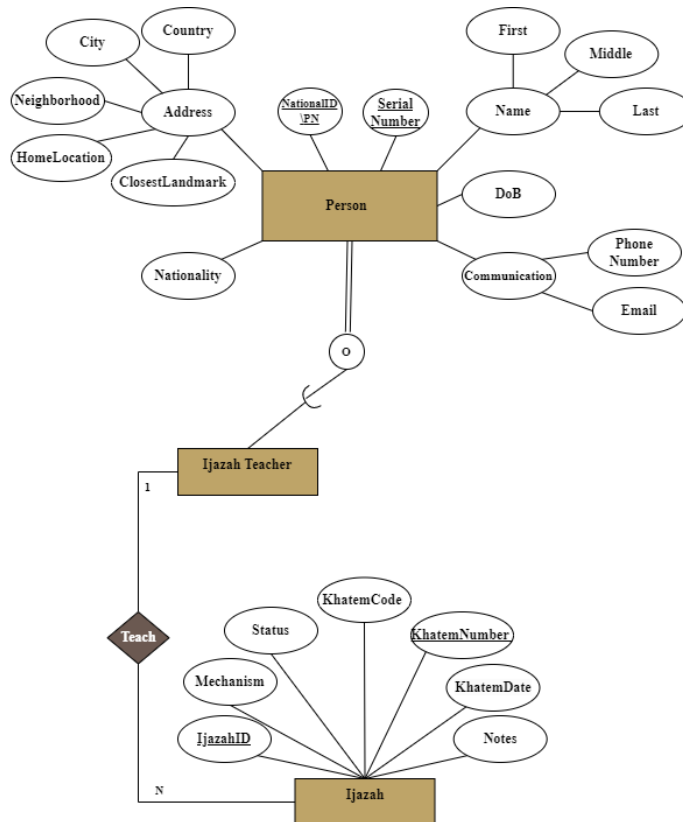
### 3.2 Mapping of Weak Entity Types

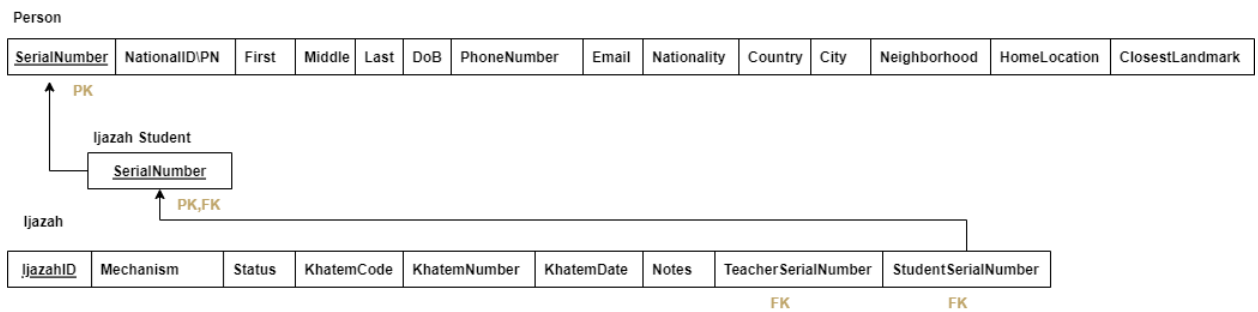
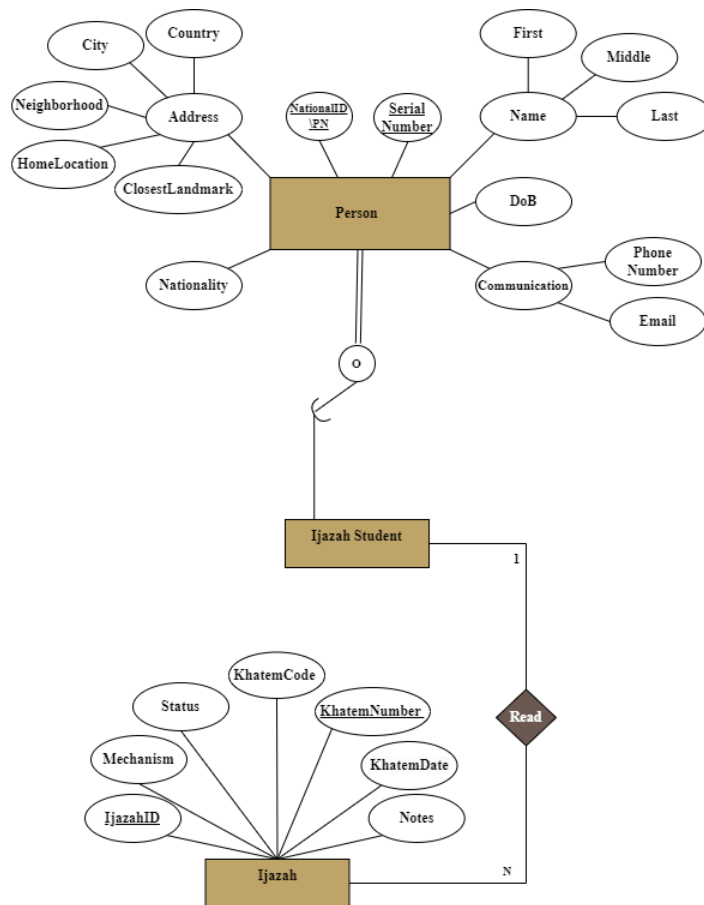


### 3.3 Mapping of binary 1-1 relationship types

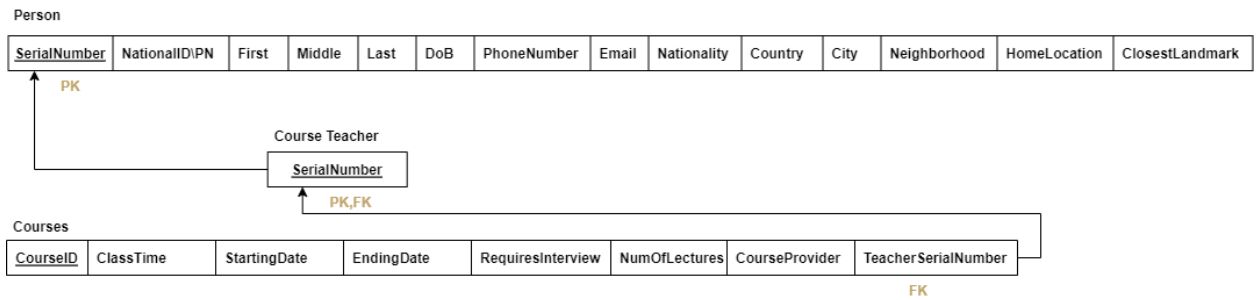
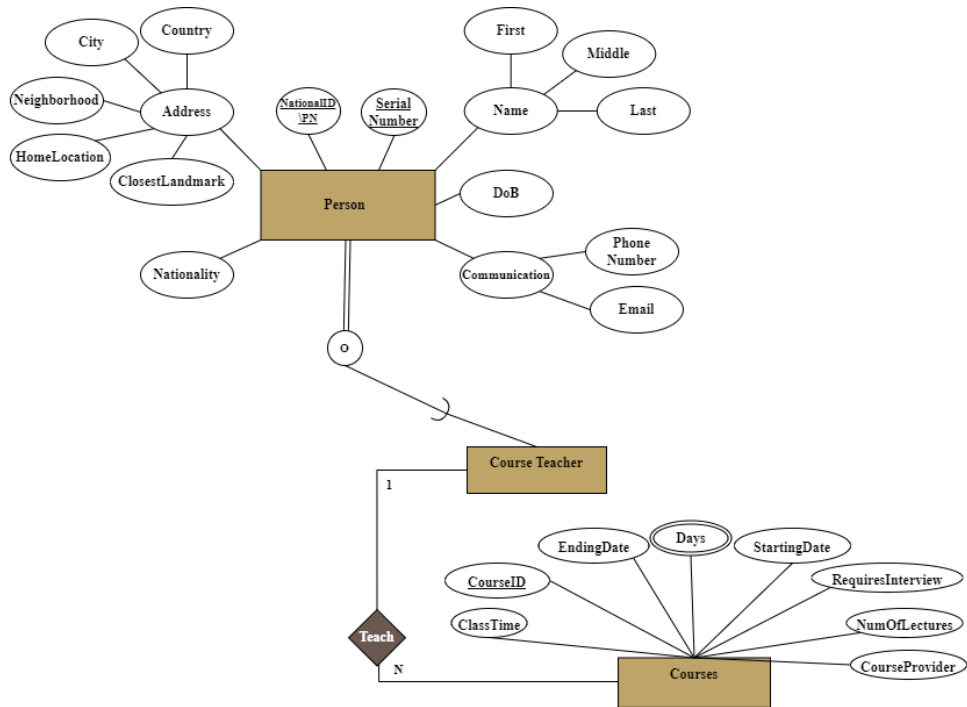
The system doesn't have any 1-1 relationship.

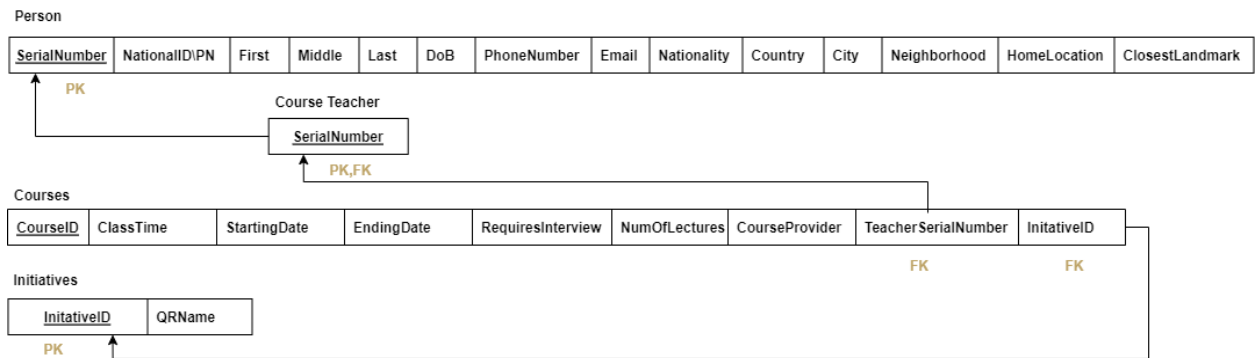
### 3.4 Mapping of binary 1-N relationship types

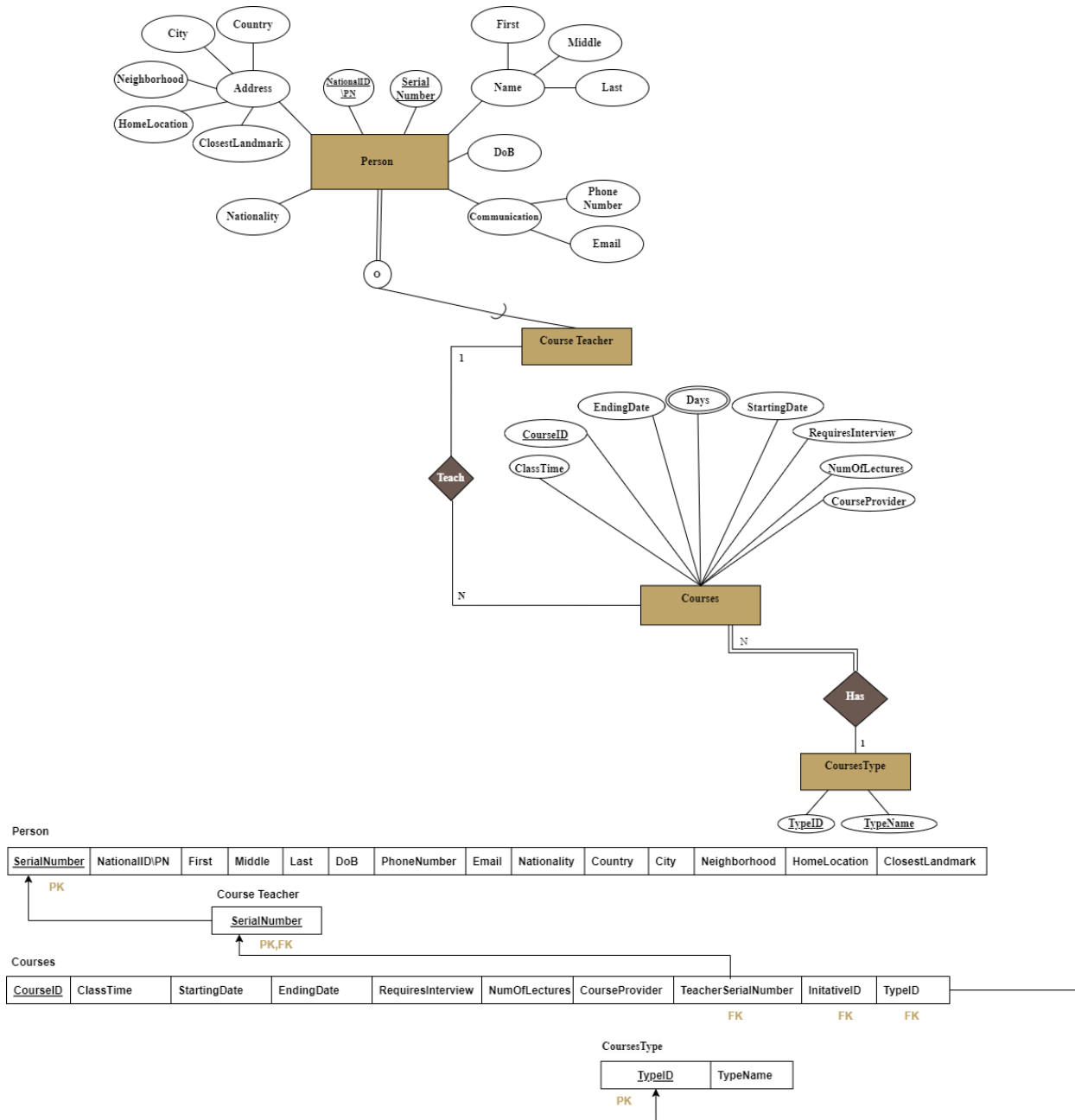


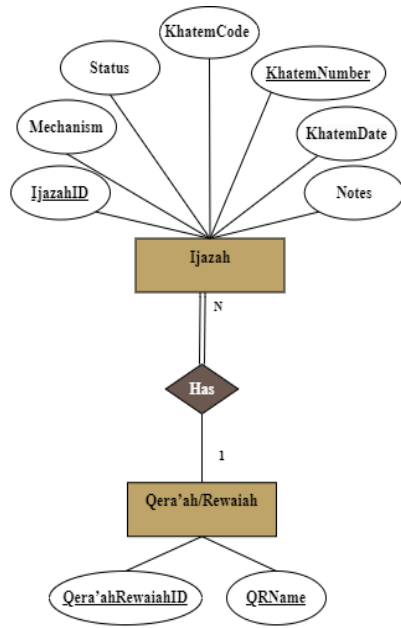










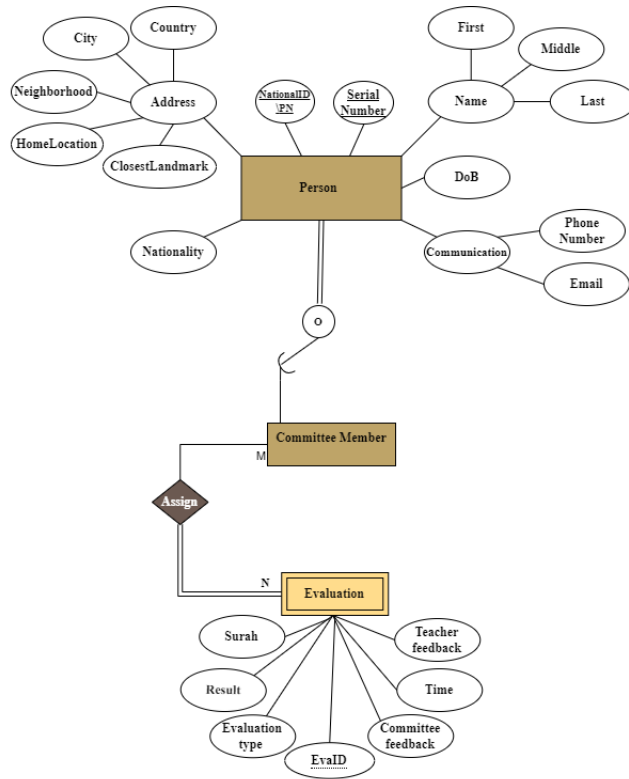


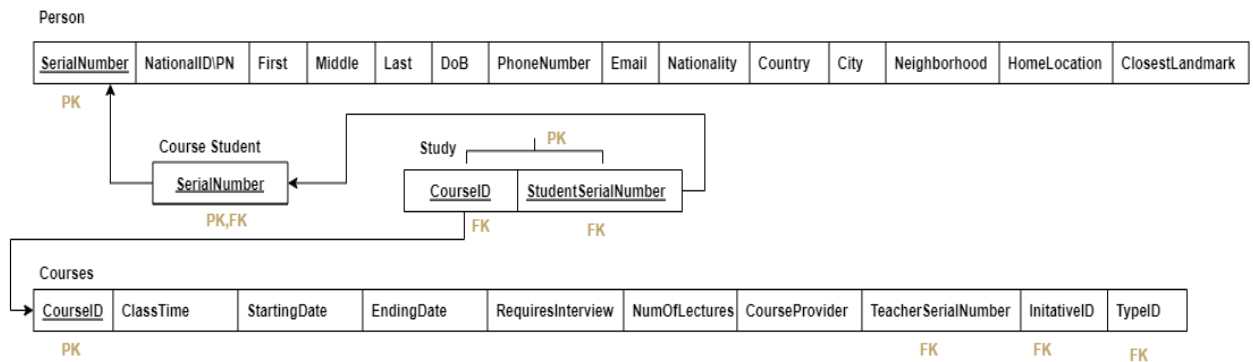
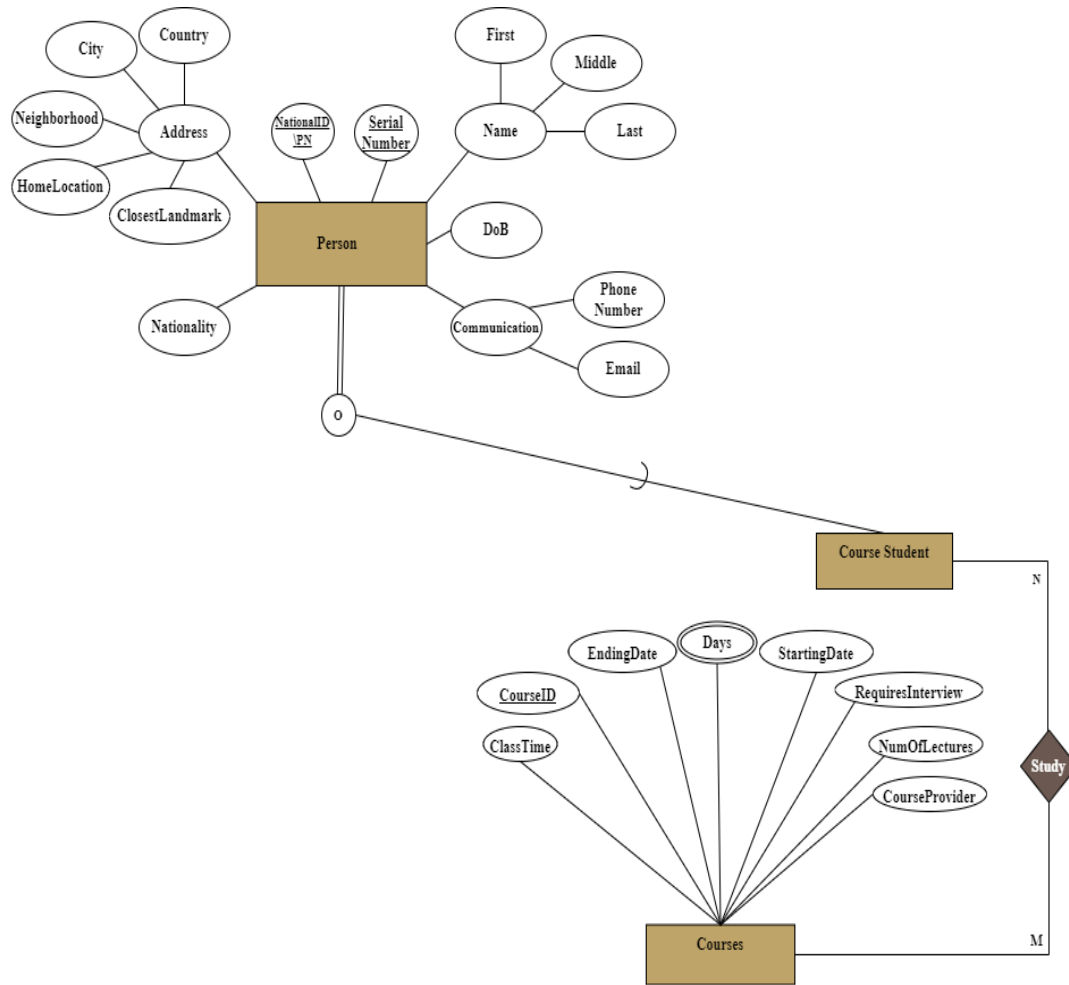
Ijazah

<u>IjazahID</u>	Mechanism	Status	KhatemCode	KhatemNumber	KhatemDate	Notes	TeacherSerialNumber	StudentSerialNumber	Qera'ahRewaiahID
							FK	FK	FK

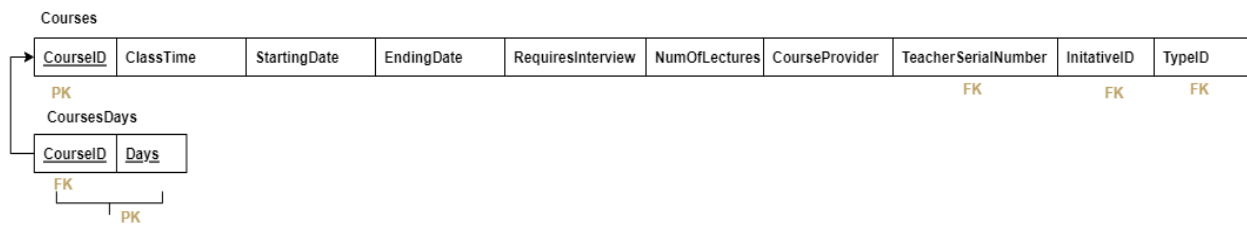
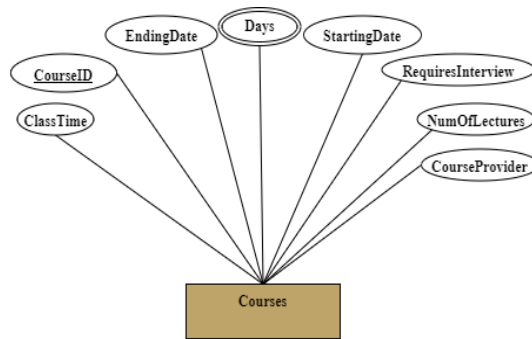
Qera'ah/Rewaiah	
<u>Qera'ahRewaiahID</u>	QRName
PK	

### 3.5 Mapping of binary M-N relationship types





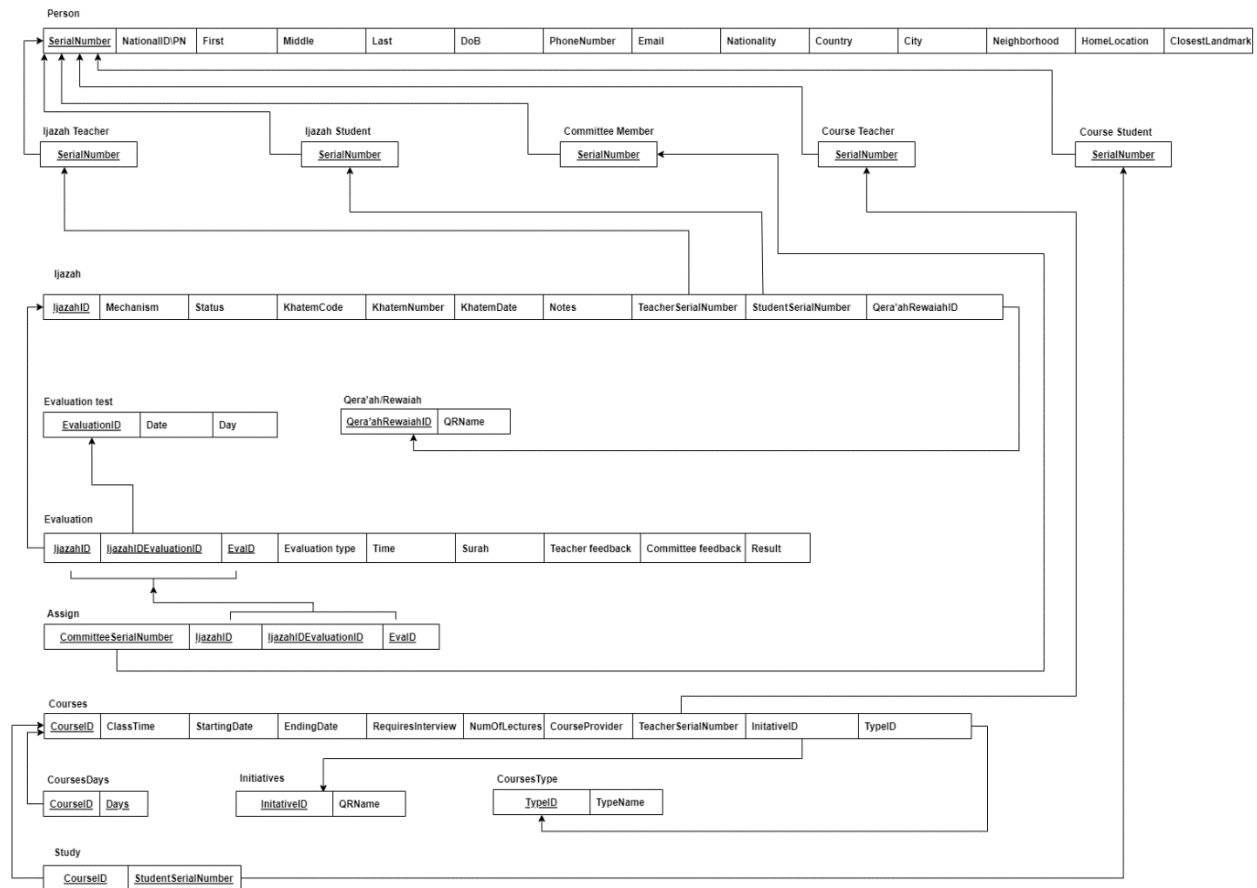
### 3.6 Mapping of multivalued attributes



### 3.7 Mapping of n-ary relationship types

The system doesn't have any N-ary relationship.

### 3.8 Schema Diagram





## 4 Normalization

### 4.1 First Normal Form

The 1<sup>st</sup> Normal form disallows composite attributes, multivalued attributes, and nested relations. All relation schemas are in the 1<sup>st</sup> Normal form because they fulfill the abovementioned condition.

The schema below represents all the attributes without composite attributes, multivalued attributes, and nested relations.

Person													
SerialNumber	NationalID/PN	First	Middle	Last	DoB	PhoneNumber	Email	Nationality	Country	City	Neighborhood	HomeLocation	ClosestLandmark

Ijazah Teacher

SerialNumber
--------------

Ijazah Student

SerialNumber
--------------

Committee Member

SerialNumber
--------------

Course Teacher

SerialNumber
--------------

Course Student

SerialNumber
--------------

Ijazah

IjazahID	Mechanism	Status	KhatemCode	KhatemNumber	KhatemDate	Notes	TeacherSerialNumber	StudentSerialNumber	Qera'ahRewalahID
----------	-----------	--------	------------	--------------	------------	-------	---------------------	---------------------	------------------

Evaluation test

EvaluationID	Date	Day
--------------	------	-----

Qera'ah/Rewalah

Qera'ahRewalahID	QRName
------------------	--------

Evaluation

IjazahID	IjazahIDEvaluationID	EvalID	Evaluation type	Time	Surah	Teacher feedback	Committee feedback	Result
----------	----------------------	--------	-----------------	------	-------	------------------	--------------------	--------

Assign

AssigningID	IjazahID	IjazahIDEvaluationID	EvalID
-------------	----------	----------------------	--------

Courses

CourseID	ClassTime	StartingDate	EndingDate	RequiresInterview	NumOfLectures	CourseProvider	TeacherSerialNumber	InitiativeID	TypeID
----------	-----------	--------------	------------	-------------------	---------------	----------------	---------------------	--------------	--------

CoursesDays

CourseID	Days
----------	------

Initiatives

InitiativeID	QRName
--------------	--------

CoursesType

TypeID	TypeName
--------	----------

Study

CourseID	StudentSerialNumber
----------	---------------------

## 4.2 Second Normal Form

The 2<sup>nd</sup> Normal form disallows partial dependency, all attributes must be fully functionally dependent on the primary key. All relation schemas are in the second normal form because they fulfill the abovementioned condition.

Person

<u>SerialNumber</u>	NationalID/PN	First	Middle	Last	DoB	PhoneNumber	Email	Nationality	Country	City	Neighborhood	HomeLocation	ClosestLandmark
---------------------	---------------	-------	--------	------	-----	-------------	-------	-------------	---------	------	--------------	--------------	-----------------

{SerialNumber} → NationalID\PN, First, Middle, Last, DoB, PhoneNumber, Email, Nationality, Country, City, Neighborhood, HomeLocation, ClosestLandmark. There are no partial dependencies because every non-primary attribute is entirely dependent on the primary key. Therefore, they are full FD.

Ijazah

<u>IjazahID</u>	Mechanism	Status	KhatemCode	KhatemNumber	KhatemDate	Notes	TeacherSerialNumber	StudentSerialNumber	Qera'ahRewaiahID
-----------------	-----------	--------	------------	--------------	------------	-------	---------------------	---------------------	------------------

{IjazahID} → Mechanism, Status, KhatemCode, KhatemNumber, KhatemDate, Notes, TeacherSerialNumber, StudentSerialNumber, Qera'ahRewaiahID. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

Evaluation test

<u>EvaluationID</u>	Date	Day
---------------------	------	-----

{EvaluationID} → Date, Day. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

Qera'ah/Rewaiah

<u>Qera'ahRewaiahID</u>	QRName
-------------------------	--------

{Qera'ahRewaiahID} → QRName. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

#### Evaluation

<u>IjazahID</u>	<u>IjazahIDEvaluationID</u>	<u>EvalID</u>	Evaluation type	Time	Surah	Teacher feedback	Committee feedback	Result
-----------------	-----------------------------	---------------	-----------------	------	-------	------------------	--------------------	--------

{IjazahID, IjazahIDEvaluationID, EvalID} → Evaluation type, Time, Surah, Teacher feedback, Committee feedback, Result. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

#### Courses

<u>CourseID</u>	ClassTime	StartingDate	EndingDate	RequiresInterview	NumOfLectures	CourseProvider	TeacherSerialNumber	InitiativeID	TypeID
-----------------	-----------	--------------	------------	-------------------	---------------	----------------	---------------------	--------------	--------

{CourseID} → ClassTime, StartingDate, EndingDate, RequiresInterview, NumOfLectures, CourseProvider, TeacherSerialNumber, InitiativeID, TypeID. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

#### Initiatives

<u>InitiativeID</u>	QRName
---------------------	--------

{InitiativeID} → QRName. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

#### CoursesType

<u>TypeID</u>	TypeName
---------------	----------

{TypeID} → TypeName. There are no partial dependencies because every non-primary attribute is fully dependent on the primary key. Therefore, they are full FD.

#### Assign

<u>CommitteeSerialNumber</u>	<u>IjazahID</u>	<u>IjazahIDEvaluationID</u>	<u>EvalID</u>
------------------------------	-----------------	-----------------------------	---------------

#### Study

<u>CourseID</u>	<u>StudentSerialNumber</u>
-----------------	----------------------------

#### CoursesDays

<u>CourseID</u>	<u>Days</u>
-----------------	-------------

#### Ijazah Teacher

<u>SerialNumber</u>
---------------------

#### Ijazah Student

<u>SerialNumber</u>
---------------------

#### Committee Member

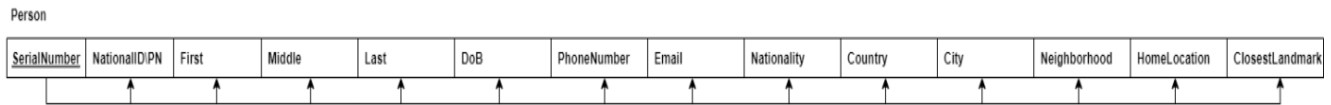
<u>SerialNumber</u>
---------------------

#### Course Teacher

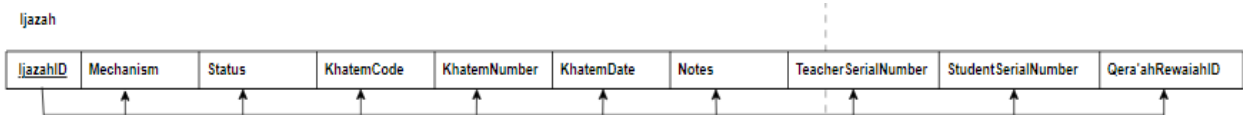
<u>SerialNumber</u>
---------------------

### 4.3 Third Normal Form

The 3rd Normal form disallows transitive functional dependency. That happens when a non-prime attribute in a relation is transitively dependent on another non-prime attribute. So, all non-prime attributes should be functionally dependent only on the primary key to apply the third normal form. All relational schemas are in the third normal form because they fulfill the abovementioned condition.

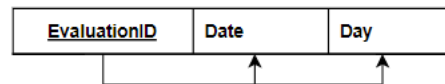


**Person** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.



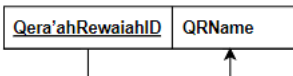
**Ijazah** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.

#### Evaluation test

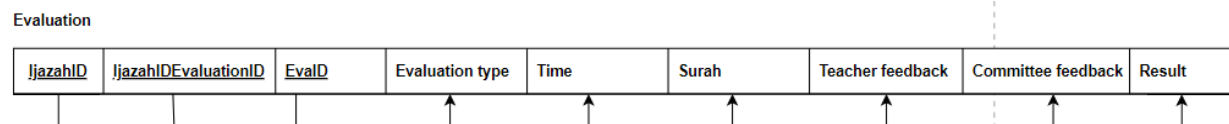


**Evaluation test** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.

#### Qera'ah/Rewaiah



**Qera'ah/Rewaiah** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.



**Evaluation** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.

Courses									
<u>CourseID</u>	ClassTime	StartingDate	EndingDate	RequiresInterview	NumOfLectures	CourseProvider	TeacherSerialNumber	InitiativeID	TypeID

**Courses** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.

Initiatives

<u>InitiativeID</u>	QRName
---------------------	--------

**Initiatives** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.

CoursesType

<u>TypeID</u>	TypeName
---------------	----------

**CoursesType** relation is already in 3NF, since all attributes depend on the primary key, and there are no transitive dependencies.

Assign

<u>CommitteeSerialNumber</u>	<u>IjazahID</u>	<u>IjazahIDEvaluationID</u>	<u>EvalID</u>
------------------------------	-----------------	-----------------------------	---------------

Study

<u>CourseID</u>	<u>StudentSerialNumber</u>
-----------------	----------------------------

CoursesDays

<u>CourseID</u>	<u>Days</u>
-----------------	-------------

Ijazah Teacher

<u>SerialNumber</u>
---------------------

Ijazah Student

<u>SerialNumber</u>
---------------------

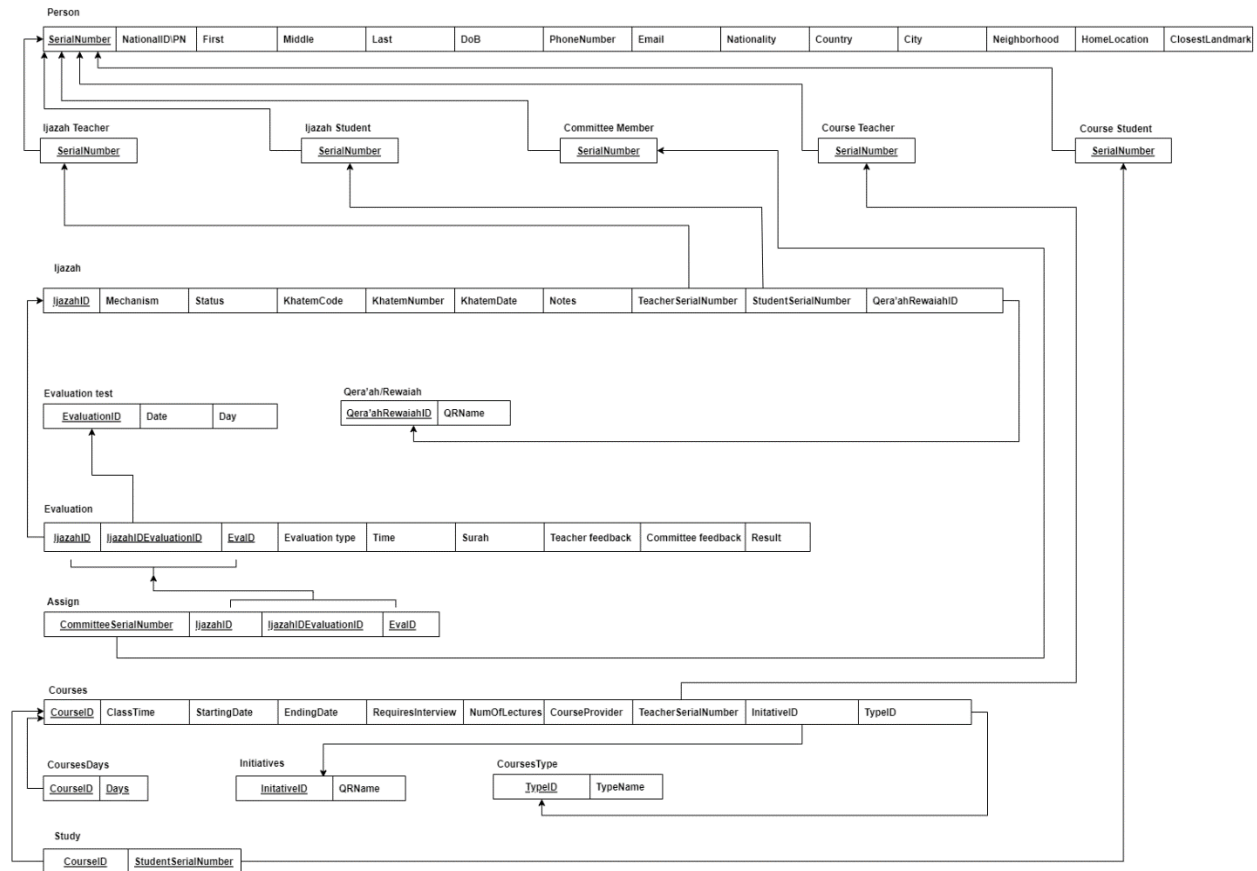
Committee Member

<u>SerialNumber</u>
---------------------

Course Teacher

<u>SerialNumber</u>
---------------------

## 5 Final DB Schema Diagram



To see it more clearly follow the link: <https://cutt.us/k0pfx>

## PART III: IMPLEMENTATION

### 6 Table Creation Script

#### 6.1 <Person> TABLE

```
CREATE TABLE Person (  
  PersonSerialNumber number(10) PRIMARY KEY,  
  PersonNationalID varchar2(10) UNIQUE,  
  PersonFname varchar2(50),  
  PersonMname varchar2(50),  
  PersonLname varchar2(50),  
  DoB DATE,  
  PhoneNumber number(16) ,  
  Email varchar2(100),  
  Nationality varchar2(50),  
  Country varchar2(50),  
  City varchar2(50),  
  Neighborhood varchar2(50),  
  HomeLocation varchar2(250),  
  ClosestLandmark varchar2(50)  
);
```

```
CREATE TABLE Person (PersonSerialNumber number(10) PRIMARY KEY,  
  PersonNationalID varchar2(10) UNIQUE,  
  PersonFname varchar2(50),  
  PersonMname varchar2(50),  
  PersonLname varchar2(50),  
  DoB DATE,  
  PhoneNumber number(16) ,  
  Email varchar2(100),  
  Nationality varchar2(50),  
  Country varchar2(50),  
  City varchar2(50),  
  Neighborhood varchar2(50),  
  HomeLocation varchar2(250),  
  ClosestLandmark varchar2(50)  
)
```

Table created.

## 6.2 < IjazahTeacher > TABLE

```
CREATE TABLE IjazahTeacher (  
  IjazahTeacherSerialNumber number(10) PRIMARY KEY,  
  CONSTRAINT FK_IjazahTeacherSN FOREIGN KEY (IjazahTeacherSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
);
```

```
CREATE TABLE IjazahTeacher (  
  IjazahTeacherSerialNumber number(10) PRIMARY KEY,  
  CONSTRAINT FK_IjazahTeacherSN FOREIGN KEY (IjazahTeacherSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
)
```

Table created.

## 6.3 < IjazahStudent > TABLE

```
CREATE TABLE IjazahStudent (  
  IjazahStudentSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_IjazahStudentSN FOREIGN KEY (IjazahStudentSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
);
```

```
CREATE TABLE IjazahStudent (  
  IjazahStudentSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_IjazahStudentsN FOREIGN KEY (IjazahStudentSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
)
```

Table created.



#### 6.4 < *CommitteeMember* > TABLE

```
CREATE TABLE CommitteeMember (  
  CommitteeMemberSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_CommitteeMemberSN FOREIGN KEY  
  (CommitteeMemberSerialNumber) REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
);
```

```
CREATE TABLE CommitteeMember (  
  CommitteeMemberSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_CommitteeMemberSN FOREIGN KEY (CommitteeMemberSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
)
```

Table created.

#### 6.5 < *CourseTeacher* > TABLE

```
CREATE TABLE CourseTeacher (  
  CourseTeacherSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_CourseTeacherSN FOREIGN KEY (CourseTeacherSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
);
```

```
CREATE TABLE CourseTeacher (  
  CourseTeacherSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_CourseTeacherSN FOREIGN KEY (CourseTeacherSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
)
```

Table created.

## 6.6 < CourseStudent > TABLE

```
CREATE TABLE CourseStudent (  
  CourseStudentSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_CourseStudentSN FOREIGN KEY (CourseStudentSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
);
```

```
CREATE TABLE CourseStudent (  
  CourseStudentSerialNumber number(10) PRIMARY KEY ,  
  CONSTRAINT FK_CourseStudentSN FOREIGN KEY (CourseStudentSerialNumber)  
  REFERENCES Person (PersonSerialNumber)  
  ON DELETE CASCADE  
)
```

Table created.

## 6.7 < Qeraah\_Rewaiah > TABLE

```
CREATE TABLE Qeraah_Rewaiah (  
  QeraahRewaiahID number(6) PRIMARY KEY ,  
  QRName varchar2(100)  
);
```

```
CREATE TABLE Qeraah_Rewaiah (  
  QeraahRewaiahID number(6) PRIMARY KEY ,  
  QRName varchar2(100)  
)
```

Table created.

## 6.8 < EvaluationTest > TABLE

```
CREATE TABLE EvaluationTest (
  EvaluationID number(6) PRIMARY KEY ,
  EvaluationDay varchar2(20), EvaluationDate DATE
);
```

```
CREATE TABLE EvaluationTest (
  EvaluationID number(6) PRIMARY KEY ,
  EvaluationDay varchar2(20), EvaluationDate DATE
)
```

Table created.

## 6.9 < Ijazah > TABLE

```
CREATE TABLE Ijazah ( IjazahID number(6) PRIMARY KEY ,
  Mechanism varchar2(50),IjazahStatus varchar2(50),KhatemCode varchar2(15),
  KhatemNumber number(4) ,KhatemDate DATE, Notes varchar2(250),
  TeacherSerialNumber number(10), StudentSerialNumber number(10),
  QeraahRewaiahID number(6),
  CONSTRAINT CHK_IjazahTeaterStudent
  CHECK (TeacherSerialNumber != StudentSerialNumber),
  CONSTRAINT FK_TeacherSerialNum FOREIGN KEY (TeacherSerialNumber)
  REFERENCES IjazahTeacher (IjazahTeacherSerialNumber),
  CONSTRAINT FK_StudentSerialNum FOREIGN KEY (StudentSerialNumber)
  REFERENCES IjazahStudent (IjazahStudentSerialNumber),
  CONSTRAINT FK_QeraahRewaiahID FOREIGN KEY (QeraahRewaiahID)
  REFERENCES Qeraah_Rewaiah (QeraahRewaiahID)
  ON DELETE CASCADE
);
```

```
CREATE TABLE Ijazah (
  IjazahID number(6) PRIMARY KEY ,
  Mechanism varchar2(50),IjazahStatus varchar2(50),KhatemCode varchar2(15),
  KhatemNumber number(4) ,KhatemDate DATE, Notes varchar2(250),
  TeacherSerialNumber number(10), StudentSerialNumber number(10),
  QeraahRewaiahID number(6),
  CONSTRAINT CHK_IjazahTeaterStudent CHECK (TeacherSerialNumber != StudentSerialNumber),
  CONSTRAINT FK_TeacherSerialNum FOREIGN KEY (TeacherSerialNumber)
  REFERENCES IjazahTeacher (IjazahTeacherSerialNumber),
  CONSTRAINT FK_StudentSerialNum FOREIGN KEY (StudentSerialNumber)
  REFERENCES IjazahStudent (IjazahStudentSerialNumber),
  CONSTRAINT FK_QeraahRewaiahID FOREIGN KEY (QeraahRewaiahID)
  REFERENCES Qeraah_Rewaiah (QeraahRewaiahID)
  ON DELETE CASCADE
)
```

Table created.

## 6.10 < CoursesType > TABLE

```
CREATE TABLE CoursesType (  
 TypeID number(6) PRIMARY KEY,  
  CourseTypeName varchar2(50)  
);
```

```
CREATE TABLE CoursesType (  
 TypeID number(6) PRIMARY KEY,  
  CourseTypeName varchar2(50)  
)
```

Table created.

## 6.11 < Initiatives > TABLE

```
CREATE TABLE Initiatives (  
  InitiativeID number(6) PRIMARY KEY,  
  QRName varchar2(50)  
);
```

```
CREATE TABLE Initiatives (  
  InitiativeID number(6) PRIMARY KEY,  
  QRName varchar2(50)  
)
```

Table created.

## 6.12 < Courses > TABLE

```
CREATE TABLE Courses (
  CourseID number(6) PRIMARY KEY,
  StartingDate date, EndingDate date, ClassTime VARCHAR2(50), RequirersInterview varchar2 (3),
  CONSTRAINT CONSTRAINT_YesNo CHECK (RequirersInterview IN ('Yes','No')),
  NumOfLectures number (3), CourseProvider varchar2(50),TeacherSerialNumber number(10),
  InitiativeID number(6),TypeID number(6),
  CONSTRAINT FK_TeacherSerialNum_Courses FOREIGN KEY (TeacherSerialNumber)
  REFERENCES CourseTeacher (CourseTeacherSerialNumber),
  CONSTRAINT FK_InitiativeID FOREIGN KEY (InitiativeID)
  REFERENCES Initiatives (InitiativeID),
  CONSTRAINT FK_TypeID FOREIGN KEY (TypeID)
  REFERENCES CoursesType (TypeID)
  ON DELETE CASCADE
);
```

```
CREATE TABLE Courses (
  CourseID number(6) PRIMARY KEY,
  StartingDate date,
  EndingDate date,
  ClassTime VARCHAR2(50),
  RequirersInterview varchar2 (3),
  CONSTRAINT CONSTRAINT_YesNo CHECK (RequirersInterview IN ('Yes','No')),
  NumOfLectures number (3),
  CourseProvider varchar2(50),
  TeacherSerialNumber number(10),
  InitiativeID number(6),
  TypeID number(6),
  CONSTRAINT FK_TeacherSerialNum_Courses FOREIGN KEY (TeacherSerialNumber)
  REFERENCES CourseTeacher (CourseTeacherSerialNumber),
  CONSTRAINT FK_InitiativeID FOREIGN KEY (InitiativeID)
  REFERENCES Initiatives (InitiativeID),
  CONSTRAINT FK_TypeID FOREIGN KEY (TypeID)
  REFERENCES CoursesType (TypeID)
  ON DELETE CASCADE
)
```

Table created.

### 6.13 < *CoursesDays* > TABLE

```
CREATE TABLE CoursesDays (
  CourseID number(6),
  CourseDays varchar2(10),
  CONSTRAINT PK_CoursesDays PRIMARY KEY (CourseID,CourseDays),
  CONSTRAINT FK_IDCourseDays FOREIGN KEY(CourseID)
  REFERENCES Courses (CourseID)
  ON DELETE CASCADE
);
```

```
CREATE TABLE CoursesDays (
  CourseID number(6),
  CourseDays varchar2(10),
  CONSTRAINT PK_CoursesDays PRIMARY KEY (CourseID,CourseDays),
  CONSTRAINT FK_IDCourseDays FOREIGN KEY(CourseID) REFERENCES Courses (CourseID)
  ON DELETE CASCADE
)
```

Table created.

### 6.14 < *Study* > TABLE

```
CREATE TABLE Study (
  CourseID number(6),
  StudentSerialNumber number(10),
  CONSTRAINT PK_Study PRIMARY KEY (CourseID,StudentSerialNumber),
  CONSTRAINT FK_IDCourse FOREIGN KEY(CourseID)
  REFERENCES Courses (CourseID),
  CONSTRAINT FK_StudentSN FOREIGN KEY(StudentSerialNumber)
  REFERENCES CourseStudent(CourseStudentSerialNumber)
  ON DELETE CASCADE
);
```

```
CREATE TABLE Study (
  CourseID number(6),
  StudentSerialNumber number(10),
  CONSTRAINT PK_Study PRIMARY KEY (CourseID,StudentSerialNumber),
  CONSTRAINT FK_IDCourse FOREIGN KEY(CourseID)
  REFERENCES Courses (CourseID),
  CONSTRAINT FK_StudentSN FOREIGN KEY(StudentSerialNumber)
  REFERENCES CourseStudent(CourseStudentSerialNumber)
  ON DELETE CASCADE
)
```

Table created.

## 6.15 < Evaluation > TABLE

```
CREATE TABLE Evaluation (
  IjazahID NUMBER(6), IjazahIDEvaluationID NUMBER(6), EvaID NUMBER(6),
  EvaluationType VARCHAR2(50), EvaluationTime VARCHAR2(50),
  Surah VARCHAR2(50), TeacherFeedback VARCHAR2(250),
  CommitteeFeedback VARCHAR2(250), EvaluationResult VARCHAR2(50),
  CONSTRAINT PK_IjaEvaID PRIMARY KEY (IjazahID, IjazahIDEvaluationID, EvaID),
  CONSTRAINT FK_IjazahID FOREIGN KEY (IjazahID)
  REFERENCES Ijazah (IjazahID),
  CONSTRAINT FK_EvaluationID FOREIGN KEY (IjazahIDEvaluationID)
  REFERENCES EvaluationTest (EvaluationID),
  CONSTRAINT con_EvaluationTime UNIQUE (IjazahIDEvaluationID, EvaluationTime)
);
```

```
CREATE TABLE Evaluation (
  IjazahID NUMBER(6),
  IjazahIDEvaluationID NUMBER(6),
  EvaID NUMBER(6),
  EvaluationType VARCHAR2(50),
  EvaluationTime VARCHAR2(50), Surah VARCHAR2(50),
  TeacherFeedback VARCHAR2(250),
  CommitteeFeedback VARCHAR2(250),
  EvaluationResult VARCHAR2(50),
  CONSTRAINT PK_IjaEvaID PRIMARY KEY (IjazahID, IjazahIDEvaluationID, EvaID),
  CONSTRAINT FK_IjazahID FOREIGN KEY (IjazahID)
  REFERENCES Ijazah (IjazahID),
  CONSTRAINT FK_EvaluationID FOREIGN KEY (IjazahIDEvaluationID)
  REFERENCES EvaluationTest (EvaluationID),
  CONSTRAINT con_EvaluationTime UNIQUE (IjazahIDEvaluationID, EvaluationTime)
)
```

Table created.

## 6.16 < Assigning > TABLE

```
CREATE TABLE Assigning (
  CommitteeSerialNumber number(10),
  IjazahID number(6),
  IJazahIDEvaluation number(6),
  EvalID number(6),
  CONSTRAINT PK_Assigning PRIMARY KEY
  (CommitteeSerialNumber, IjazahID, IJazahIDEvaluation, EvalID),
  CONSTRAINT FK_CommitteeSerialNumber FOREIGN KEY (CommitteeSerialNumber)
  REFERENCES CommitteeMember (CommitteeMemberSerialNumber),
  CONSTRAINT FK_EvaluationAssigning
  FOREIGN KEY (IjazahID, IJazahIDEvaluation, EvalID)
  REFERENCES Evaluation (IjazahID, IJazahIDEvaluationID, EvalID)
  ON DELETE CASCADE
);
```

```
CREATE TABLE Assigning (
  CommitteeSerialNumber number(10),
  IjazahID number(6),
  IJazahIDEvaluation number(6),
  EvalID number(6),
  CONSTRAINT PK_Assigning PRIMARY KEY (CommitteeSerialNumber, IjazahID, IJazahIDEvaluation, EvalID),
  CONSTRAINT FK_CommitteeSerialNumber FOREIGN KEY (CommitteeSerialNumber)
  REFERENCES CommitteeMember (CommitteeMemberSerialNumber),
  CONSTRAINT FK_EvaluationAssigning FOREIGN KEY (IjazahID, IJazahIDEvaluation, EvalID)
  REFERENCES Evaluation (IjazahID, IJazahIDEvaluationID, EvalID)
  ON DELETE CASCADE
)
```

Table created.



## 7 Constraints Script

Business Rule	SQL Script	Table
Each Ijazah teacher can <b>teach</b> one Ijazah or more, and each Ijazah has only one teacher.	<ul style="list-style-type: none"> <li>CONSTRAINT FK_TeacherSerialNum FOREIGN KEY (TeacherSerialNumber) REFERENCES IjazahTeacher (IjazahTeacherSerialNumber)</li> </ul>	Ijazah
Each Ijazah student can <b>read</b> one Ijazah or more, and each Ijazah has only one student.	<ul style="list-style-type: none"> <li>CONSTRAINT FK_StudentSerialNum FOREIGN KEY (StudentSerialNumber) REFERENCES IjazahStudent (IjazahStudentSerialNumber),</li> </ul>	Ijazah
Each Ijazah <b>requires</b> several evaluations, and each evaluation evaluates one Ijazah.	<ul style="list-style-type: none"> <li>CONSTRAINT FK_IjazahID FOREIGN KEY (IjazahID) REFERENCES Ijazah (IjazahID)</li> </ul>	Evaluation
Each evaluation test <b>has</b> several evaluations, and each evaluation belongs to one evaluation test.	<ul style="list-style-type: none"> <li>CONSTRAINT FK_EvaluationID FOREIGN KEY (IjazahIDEvaluationID) REFERENCES EvaluationTest (EvaluationID)</li> </ul>	Evaluation
Each committee member is <b>assigned</b> to several evaluations, and each evaluation has many committee members.	<ul style="list-style-type: none"> <li>CONSTRAINT FK_CommitteeSerialNumber FOREIGN KEY (CommitteeSerialNumber) REFERENCES CommitteeMember (CommitteeMemberSerialNumber)</li> </ul>	Assigning
Each Ijazah must <b>have</b> one type of Qera'ah or Rewaiah, and each Qera'ah or Rewaiah may be assigned to several Ijazah.	<ul style="list-style-type: none"> <li>CONSTRAINT FK_QeraahRewaiahID FOREIGN KEY (QeraahRewaiahID) REFERENCES Qeraah_Rewaiah (QeraahRewaiahID)</li> </ul>	Ijazah

Each course teacher can <b>teach</b> one or more courses, and each course has only one teacher.	<ul style="list-style-type: none"> <li>• CONSTRAINT FK_TeacherSerialNum_Courses FOREIGN KEY (TeacherSerialNumber) REFERENCES CourseTeacher (CourseTeacherSerialNumber)</li> </ul>	Courses
Each course student can <b>study</b> one course or more, and each course has many course students.	<ul style="list-style-type: none"> <li>• CONSTRAINT FK_StudentSN FOREIGN KEY (StudentSerialNumber) REFERENCES CourseStudent (CourseStudentSerialNumber)</li> </ul>	Study
Each course must <b>have</b> one course type, and each course type may be assigned to several courses.	<ul style="list-style-type: none"> <li>• CONSTRAINT FK_TypeID FOREIGN KEY (TypeID) REFERENCES CoursesType (TypeID)</li> </ul>	Courses
Each course must be launched by an initiative, and each initiative launches several courses.	<ul style="list-style-type: none"> <li>• CONSTRAINT FK_InitiativeID FOREIGN KEY (InitiativeID) REFERENCES Initiatives (InitiativeID)</li> </ul>	Courses

## 8 Queries

### 8.1 <Hafiza center courses and teachers>

#### Query in natural language (ENGLISH)

Retrieve the courses that has been provided at “Hafiza center” with names and IDs of the teachers who has presented these courses.

#### SQL script

```
SELECT ct.CourseTypeName, pe.PersonFname || ' ' || pe.PersonLname as TeacherName
FROM courses co, CoursesType ct, Person pe
WHERE co.TeacherSerialNumber = pe.PersonSerialNumber
      AND co.TypeID = ct.TypeID
      AND co.CourseProvider like ('hafizah center')
```

#### Caption of the first five rows of the output

COURSETYPENAME	TEACHERNAME
tathbeet Almushaf	Renad Alghamdi
Manzomah Al-tiybah	Renad Alghamdi
Qefayat Aleqraa	Rina Albarakati
Manzomah Al-Durahh	Rina Albarakati

Download CSV

## 8.2 <Students who need to practice tide time>

### Query in natural language (ENGLISH)

Retrieve all students' full names that has took the committee feedback “need to practice (tide time)” in evaluation, and the Ijazah ID, evaluation type, teacher feedback, committee feedback.

### SQL script

```
SELECT p.PERSONFNAME || ' ' || p.PERSONLNAME as StudentName , e.IJAZAHID,
e.EVALUATIONTYPE, e.TEACHERFEEDBACK, e.COMMITTEEFEEEDBACK
FROM Evaluation e, Ijazah i , IjazahStudent s, person p
WHERE e.IjazahID=i.IjazahID
AND i.StudentSerialNumber =s.IjazahStudentSerialNumber
AND s.IjazahStudentSerialNumber= p.PersonSerialNumber
AND e.COMMITTEEFEEEDBACK like '%tide time%'
```

### Caption of the first five rows of the output

STUDENTNAME	IJAZAHID	EVALUATIONTYPE	TEACHERFEEDBACK	COMMITTEEFEEEDBACK
Renad Alghamdi	100000	follow-up student	nothing	need to practice (tide time)
Zeinab Almahyawi	100001	follow-up student	need to practice (tide time)	need to practice (tide time)
Malak Alharbi	100002	follow-up student	need to practice (tide time)	need to practice (tide time) & Review the tajweed information
Asmaa Almaliki	100006	new student	need to practice (tide time)	need to practice (tide time)

Download CSV

### 8.3 <Number of students enrolled in each class>

#### Query in natural language (ENGLISH)

Retrieve the name of the course, ID and the number of enrolled students for each course.

#### SQL script

```
SELECT co.CourseID, ct.CourseTypeName, numberOfStudents
from CoursesType ct, Courses co,
      (SELECT st.CourseID AS CouID, COUNT(st.StudentSerialNumber) AS
      numberOfStudents
      FROM Study st
      GROUP BY CourseID)
WHERE co.TypeID = ct.TypeID AND co.CourseID = CouID
ORDER BY co.CourseID
```

#### Caption of the first five rows of the output

COURSEID	COURSETYPENAME	NUMBEROFSTUDENTS
100000	Manzomah Al-tiybah	5
100001	Manzomah Al-shatibiah	5
100002	Manzomah Al-Durahh	3
100003	tathbeet Almushaf	3
100004	Qefayat tajweedyah	6
100005	Qefayat Aleqraa	5

Download CSV

## 8.4 <Evaluation on Sunday after 2020>

### Query in natural language (ENGLISH)

Retrieve all Evaluation Tests data that took place on Sunday after 2020.

### SQL script

```
SELECT * from EvaluationTest
WHERE EVALUATIONDATE > to_date('31-12-2020', 'dd-mm-yyyy')
AND EVALUATIONDAY= 'SUN'
```

### Caption of the first five rows of the output

EVALUATIONID	EVALUATIONDAY	EVALUATIONDATE
100001	SUN	15-JAN-21
100003	SUN	08-NOV-22
100005	SUN	01-SEP-23

Download CSV

## 8.5 <Courses and their mechanism>

### Query in natural language (ENGLISH)

Retrieve all the courses id, class time, the course provider, and mechanism such that:

1. “Online” if the course id is 100001
2. “Combined” if the course id is 100004
3. Other courses are “present”.

### SQL script

```
SELECT COURSEID,CLASSTIME,COURSEPROVIDER,
CASE COURSEID
  WHEN 100001 then 'Online'
  WHEN 100004 then 'Combined'
  ELSE 'present'
END "Mechanism"
FROM courses
```

### Caption of the first five rows of the output

COURSEID	CLASSTIME	COURSEPROVIDER	Mechanism
100000	07:00 - 09:00PM	hafizah center	present
100001	06:00 - 08:00AM	Masjed Al-Noor	Online
100002	06:00 - 08:00AM	hafizah center	present
100003	02:00 - 04:00PM	hafizah center	present
100004	06:00 - 08:00AM	Dar Al-Huda	Combined
100005	05:00 - 07:00AM	hafizah center	present

Download CSV

# APPENDIX

## <Person> TABLE

PERSONSERIALNUMBER	PERSONNATIONALID	PERSONNAME	PERSONNAME	PERSONNAME	DOB	PHONENUMBER	EMAIL	NATIONALITY	COUNTRY	CITY	NEIGHBORHOOD	HOMELOCATION	CLOSESTLANDMARK
100000000	1124481359	Deem	Salem	Alsaed	22-OCT-01	547748983	deensa@hotmail.com	Saudi	KSA	Jeddah	Al-yaqoot	<a href="https://goo.gl/maps/6ux32ybiVx8u52Hv6">https://goo.gl/maps/6ux32ybiVx8u52Hv6</a>	Sasco station
100000001	112448160	Renad	Loai	Alghamdi	09-DEC-02	547748983	renoch3@hotmail.com	Saudi	KSA	Jeddah	Al-Naeem	<a href="https://goo.gl/maps/TPz1V0CBLvu7JucVA">https://goo.gl/maps/TPz1V0CBLvu7JucVA</a>	Alnaem mall
100000002	1038472683	Rina	Mohammed	Albarakati	03-MAR-99	594670283	rraillo@gmail.com	Saudi	KSA	Jeddah	Alsafa	<a href="https://goo.gl/maps/yf9v9U3vToyZir5V6">https://goo.gl/maps/yf9v9U3vToyZir5V6</a>	Hyper Panda
100000003	193838C93	Zara	Saleh	Aljuhani	01-JAN-01	541783483	zarsaleh@gmail.com	Syria	KSA	Jeddah	Al-Rawdah	<a href="https://goo.gl/maps/YXqg4WkV56Nuzd8">https://goo.gl/maps/YXqg4WkV56Nuzd8</a>	Mida station
100000004	1227839012	Futoon	Ayham	Alsolami	09-OCT-98	581720325	futoona@gmail.com	Saudi	KSA	Jeddah	Al-Khalidiya	<a href="https://goo.gl/maps/r98F8s82Cu52r768">https://goo.gl/maps/r98F8s82Cu52r768</a>	Sports academy
100000005	1002732873	Shuruq	Abdulmajeed	Alsharif	22-OCT-01	514838021	shuosq@gmail.com	Saudi	KSA	Jeddah	Muhamadiyah	<a href="https://goo.gl/maps/DhDcFr78n8A4HvP16">https://goo.gl/maps/DhDcFr78n8A4HvP16</a>	Riyadh Bank
100000006	N9804C284	Raghad	Hassan	Khan	16-SEP-00	596258695	raghad1200@gmail.com	Indian	KSA	Jeddah	Obhur	<a href="https://goo.gl/maps/3xMwVd2HSAVr28r77">https://goo.gl/maps/3xMwVd2HSAVr28r77</a>	Alrajhi Bank
100000007	E0032796	Jana	Sofwan	Nahawi	03-FEB-97	509776083	jooni@hotmail.com	Egyptian	KSA	Jeddah	Al Basateen	<a href="https://goo.gl/maps/611Knf1U0Zah729A">https://goo.gl/maps/611Knf1U0Zah729A</a>	Mall
100000008	1217937974	Layan	Lilo	BeFarhan	03-FEB-94	584547217	misslolo@hotmail.com	Saudi	KSA	Jeddah	Al-Nahda	<a href="https://goo.gl/maps/YXqTOfio4WkV56Nuzd8">https://goo.gl/maps/YXqTOfio4WkV56Nuzd8</a>	SMB
100000009	1032877434	Zeinab	Almad	Alnahawi	18-SEP-83	525554620	zeinabola@gmail.com	Saudi	KSA	Jeddah	Alzumurod	<a href="https://goo.gl/maps/tPfoior4vu7JucVA">https://goo.gl/maps/tPfoior4vu7JucVA</a>	Obhur Mall
100000010	1128835797	Malak	Muhammed	Alharbi	23-OCT-89	586967499	malakmoh@gmail.com	Saudi	KSA	Jeddah	Alsaari	<a href="https://goo.gl/maps/fj2090CBLfe32op">https://goo.gl/maps/fj2090CBLfe32op</a>	Mida station
100000011	0179378297	Salwa	Saad	Alghamdi	10-APR-91	594418111	salwasq@gmail.com	Saudi	KSA	Jeddah	Obhur	<a href="https://goo.gl/maps/ewomF02842jK52r3dw">https://goo.gl/maps/ewomF02842jK52r3dw</a>	Obhur Mall
100000012	0183397327	Raghad	Yacoub	Algarni	11-MAR-92	572593898	ragyacoub@gmail.com	Saudi	KSA	Jeddah	Alolo	<a href="https://goo.gl/maps/soe3Ffojfoiew">https://goo.gl/maps/soe3Ffojfoiew</a>	Bhadur Resort
100000013	P193872K2	Jameela	Jameel	Zayni	12-MAY-82	583914686	jameela@gmail.com	palestinian	KSA	Jeddah	Alhamra	<a href="https://goo.gl/maps/fj32o52r7Kkwid">https://goo.gl/maps/fj32o52r7Kkwid</a>	Sasco
100000014	1093284783	Asmaa	Osama	Almaliki	17-JUL-99	548728329	asmaaosama@gmail.com	Saudi	KSA	Jeddah	Alfadaa	<a href="https://goo.gl/maps/fj1ewjfrkfwelJjo">https://goo.gl/maps/fj1ewjfrkfwelJjo</a>	SMB
100000015	1226838092	Layla	Ayham	Alsulaymani	09-OCT-96	579003595	Laylaq@gmail.com	Saudi	KSA	Jeddah	Al-Murjan	<a href="https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic">https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic</a>	Duara alnaafura
100000016	1722783501	Reim	Salih	Saeid	04-AUG-86	579098332	Reim@gmail.com	Saudi	KSA	Jeddah	Al-Murjan	<a href="https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic">https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic</a>	Duara alnaafura
100000017	1787635819	Hadeel	Ali	Alqarni	05-MAY-99	579028705	Hadeel@gmail.com	Saudi	KSA	Jeddah	Al-Murjan	<a href="https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic">https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic</a>	Jarir Bookstore
100000018	1488935059	Shahad	Muher	Alqarni	05-SEP-90	579028705	Shahad_m@gmail.com	Saudi	KSA	Jeddah	Al-Murjan	<a href="https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic">https://maps.app.goo.gl/A0Gk3g7N4w2d4u0587g_st-ic</a>	Obhur Police Station
100000019	1788036039	Awatif	Muher	Muhammad	04-SEP-80	577029705	Awatif_m@gmail.com	Saudi	KSA	Jeddah	Al-faysalia	<a href="https://maps.app.goo.gl/V92Vc2hTQVXK95x77g_st-ic">https://maps.app.goo.gl/V92Vc2hTQVXK95x77g_st-ic</a>	Duara Alderaaja
100000020	015647564	Sara	Muhammed	Alghamdi	09-DEC-01	566729898	sarah33@hotmail.com	Saudi	KSA	Jeddah	Al-Naeem	<a href="https://goo.gl/maps/TPz1V0CBLvu7JucVA">https://goo.gl/maps/TPz1V0CBLvu7JucVA</a>	NSB
100000021	014447564	Salma	Hassan	Alharbi	20-DEC-01	566729878	salma4@hotmail.com	Saudi	KSA	Jeddah	Obhur	<a href="https://goo.gl/maps/tz1Vsfelvu7JucVA">https://goo.gl/maps/tz1Vsfelvu7JucVA</a>	Hyperpanda
100000022	016667564	Raghad	Abdullah	Alghamdi	11-NOV-01	566734598	Raghadalgh@hotmail.com	Saudi	KSA	Jeddah	Al-Naeem	<a href="https://goo.gl/maps/tkz1Vd4wvWu7JucVA">https://goo.gl/maps/tkz1Vd4wvWu7JucVA</a>	Naqaa Gas station
100000023	017777564	Sarah	Osama	Alqarni	08-SEP-01	566728008	sarahalqarni@hotmail.com	Saudi	KSA	Jeddah	Al-murjan	<a href="https://goo.gl/maps/t1zk1dCBLvu7JucVA">https://goo.gl/maps/t1zk1dCBLvu7JucVA</a>	Alinmaa
100000024	018887564	Ola	Hamad	Alharthi	08-SEP-99	566728008	Ola1999@hotmail.com	Saudi	KSA	Jeddah	Al-yaqoot	<a href="https://goo.gl/maps/t1zk1dCBLvu7JucVA">https://goo.gl/maps/t1zk1dCBLvu7JucVA</a>	NSB



### < *IjazahTeacher* > TABLE

IJAZAHTEACHERSERIALNUMBER
1000000001
1000000004
1000000006
1000000008

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### < *IjazahStudent* > TABLE

IJAZAHSTUDENTSERIALNUMBER
1000000001
1000000009
1000000010
1000000012
1000000013
1000000014

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< *CommitteeMember* > TABLE

COMMITTEEMBERSERIALNUMBER
1000000000
1000000001
1000000002
1000000004

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< *CourseTeacher* > TABLE

COURSETEACHERSERIALNUMBER
1000000001
1000000002
1000000006

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< CourseStudent > TABLE

COURSESTUDENTSERIALNUMBER
1000000001
1000000003
1000000005
1000000007
1000000009
1000000011
1000000013
1000000015
1000000016
1000000017
1000000018
1000000019
1000000020
1000000021
1000000022
1000000023
1000000024

< *Qeraah\_Rewaiah* > TABLE

QERAAHREWAIAHID	QRNAME
1	Al-Asher Al-sugra
2	Qaloon An Nafee
3	Warsh An Nafee
4	Nafee Al-Madany
5	Asim Al-Coofey
6	Abu Amr Al-Basry
7	Hamzah Al Coofey

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< *EvaluationTest* > TABLE

EVALUATIONID	EVALUATIONDAY	EVALUATIONDATE
100000	SUN	20-JUL-20
100001	SUN	15-JAN-21
100002	MON	17-JUN-21
100003	SUN	08-NOV-22
100004	TUSE	18-APR-23
100005	SUN	01-SEP-23

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### < Ijazah > TABLE

IJAZAHID	MECHANISM	IJAZAHSTATUS	KHATEMCODE	KHATEMNUMBER	KHATEMDATE	NOTES	TEACHERSERIALNUMBER	STUDENTSERIALNUMBER	QERAAREWAIAHID
100000	present	continuous	-	-	-	-	1000000004	1000000001	1
100001	present	complete	R.Z.4563	3	09-DEC-23	-	1000000006	1000000009	2
100002	present	interrupted	-	-	-	student has traveled and cannot continue	1000000006	1000000010	3
100003	present	complete	F.R.5668	1	15-JUL-22	-	1000000004	1000000012	2
100004	combined	continuous	-	-	-	-	1000000003	1000000012	4
100005	present	starting	-	-	-	-	1000000001	1000000013	7
100006	combined	starting	-	-	-	student need to practice more	1000000001	1000000014	7

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### < CoursesType > TABLE

TYPEID	COURSETYPENAME
100000	Qefayat Aleqraa
100001	Manzomah Al-shatibiah
100002	Manzomah Al-Durahr
100003	tathbeet Almushaf
100004	Manzomah Al-tiybah
100005	Qefayat tajweedyah

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## < Initiatives > TABLE

INITATIVEID	QRNAME
100000	Shmoos Alquraa
100001	Albudoor Al-zaherah
100002	Maraqee

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## < Courses > TABLE

COURSEID	STARTINGDATE	ENDINGDATE	CLASSTIME	REQUIERSINTERVIEW	NUMOFLECTURES	COURSEPROVIDER	TEACHERSERIALNUMBER	INITATIVEID	TYPEID
100000	01-JAN-22	30-NOV-22	07:00 - 09:00PM	No	45	hafizah center	1000000001	100000	100004
100001	01-JAN-23	05-JAN-23	06:00 - 08:00AM	Yes	5	Masjed Al-Noor	1000000006	100000	100001
100002	01-JAN-23	17-JAN-25	06:00 - 08:00AM	Yes	120	hafizah center	1000000002	100000	100002
100003	01-JAN-23	30-NOV-24	02:00 - 04:00PM	No	90	hafizah center	1000000001	100001	100003
100004	01-JUN-23	05-JUL-23	06:00 - 08:00AM	Yes	10	Dar Al-Huda	1000000006	100002	100005
100005	01-JAN-23	17-JAN-25	05:00 - 07:00AM	Yes	120	hafizah center	1000000002	100002	100000

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## < CoursesDays > TABLE

COURSEID	COURSEDAYS
100000	SUNDAY
100001	MONDAAY
100001	SUNDAY
100001	THURSDAY
100001	TUSEDAY
100001	WEDNESDAY
100002	WEDNESDAY
100003	SUNDAY
100003	THURSDAY
100004	MONDAY
100004	WEDNESDAY
100005	MONDAY

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## < Study > TABLE

COURSEID	STUDENTSERIALNUMBER
100000	1000000015
100000	1000000016
100000	1000000017
100000	1000000018
100000	1000000019
100001	1000000020
100001	1000000021
100001	1000000022
100001	1000000023
100001	1000000024
100002	1000000020
100002	1000000022
100002	1000000024
100003	1000000015
100003	1000000020
100003	1000000023
100004	1000000015
100004	1000000016
100004	1000000017
100004	1000000018
100004	1000000019
100004	1000000020
100005	1000000020
100005	1000000021
100005	1000000022
100005	1000000023
100005	1000000024

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## < Evaluation > TABLE

STUDENT ID	EVALUATION ID	EVALUATION NO	EVALUATION TYPE	EVALUATION TIME	SURAH	TEACHER FEEDBACK	COMMITTEE FEEDBACK	EVALUATION RESULT
100000	100000	100000	new student	7:00PM	-	need to practice pronouncing the letter (Haa)	need to practice pronouncing the letter (Haa & Qaf)	Start the Tajweed
100001	100000	100009	new student	11:00PM	-	need to practice pronouncing the letter (noon & raa)	need to practice pronouncing the letter (noon & raa)	Start
100003	100001	100010	Follow-up student	11:00PM	al-kahf	need to practice pronouncing the letter (raa)	need to practice pronouncing the letter (raa)	continue
100001	100001	100003	new student	7:30PM	-	need to practice pronouncing the letter (noon)	need to practice pronouncing the letter (Laan & noon)	Start, enter next evaluation in surah al-Furqan
100000	100002	100001	Follow-up student	7:00PM	al-Musa	need to practice (tide time)	need to practice pronouncing the letter (Haa)	continue
100003	100002	100011	Follow-up student	9:45PM	al-kahf	nothing	need to practice pronouncing the letter (raa)	taahim
100002	100002	100007	new student	10:00PM	-	need to practice pronouncing the letter (haa) & (tide time)	need to practice pronouncing the letter (haa & noon)	Start, enter next evaluation in surah al-Baqarah
100001	100003	100004	Follow-up student	8:00PM	al-Furqan	need to practice (tide time)	need to practice (tide time)	continue enter next evaluation in surah al-kahf
100002	100003	100008	Follow-up student	8:15PM	al-Baqarah	need to practice (tide time)	need to practice (tide time) & Review the tajweed information	continue enter next evaluation in surah Al-Musa
100004	100003	100012	new student	7:45PM	-	nothing	need to practice pronouncing the letter (raa)	Start
100005	100004	100015	new student	11:45PM	-	need to practice (tide time)	need to practice (tide time)	Start
100004	100004	100013	Follow-up student	9:45PM	al-Mawdah	nothing	nothing	continue
100005	100004	100014	new student	11:30PM	-	need to practice pronouncing the letter (haa & raa)	need to practice pronouncing the letter (noon, qaf, lam, & raa), Also review the tajweed information	Do not start, practice and re-test
100001	100004	100005	Follow-up student	9:30PM	al-kahf	nothing	Review the tajweed information	continue
100001	100005	100006	Follow-up student	10:00PM	al-Baqarah	nothing	nothing	taahim
100000	100005	100002	Follow-up student	9:00PM	al-kahf	nothing	need to practice (tide time)	continue

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## < Assigning > TABLE

COMMITTEESERIALNUMBER	IJAZAHID	IJAZAHIDEVALUATION	EVALID
1000000000	100000	100000	100000
1000000000	100000	100002	100001
1000000000	100000	100005	100002
1000000000	100001	100001	100003
1000000000	100001	100003	100004
1000000000	100001	100004	100005
1000000000	100001	100005	100006
1000000000	100002	100002	100007
1000000000	100002	100003	100008
1000000000	100003	100000	100009
1000000000	100003	100001	100010
1000000000	100003	100002	100011
1000000000	100004	100003	100012
1000000000	100004	100004	100013
1000000000	100005	100004	100014
1000000000	100006	100004	100015
1000000001	100000	100000	100000
1000000001	100000	100002	100001
1000000001	100000	100005	100002
1000000001	100001	100001	100003
1000000001	100001	100003	100004
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1000000001	100003	100000	100009
1000000001	100003	100001	100010
1000000001	100003	100002	100011
1000000001	100004	100003	100012
1000000001	100004	100004	100013
1000000001	100005	100004	100014
1000000001	100006	100004	100015
1000000002	100000	100000	100000
1000000002	100000	100002	100001
1000000002	100000	100005	100002
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1000000002	100002	100003	100008
1000000002	100003	100000	100009
1000000002	100003	100001	100010
1000000002	100003	100002	100011
1000000002	100004	100003	100012
1000000002	100004	100004	100013
1000000002	100005	100004	100014
1000000002	100006	100004	100015

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