

PRINCESS NORA BINT ABDULRAHMAN UNIVERSITY

College of Computer and Information Sciences

Department of Information Systems



The British Council Database System

All Phases

Serial#	Section #	NAME	ID
1	4W2	Renad turki aldosari	443007752
2	4W2	Raghad sami mohammed	443007274
3	4W2	Sarah manea alhussein	443007289
4	4W2	Lama abdullah almohji	443007272
5	4W2	Noura nasser alaboud	443003849

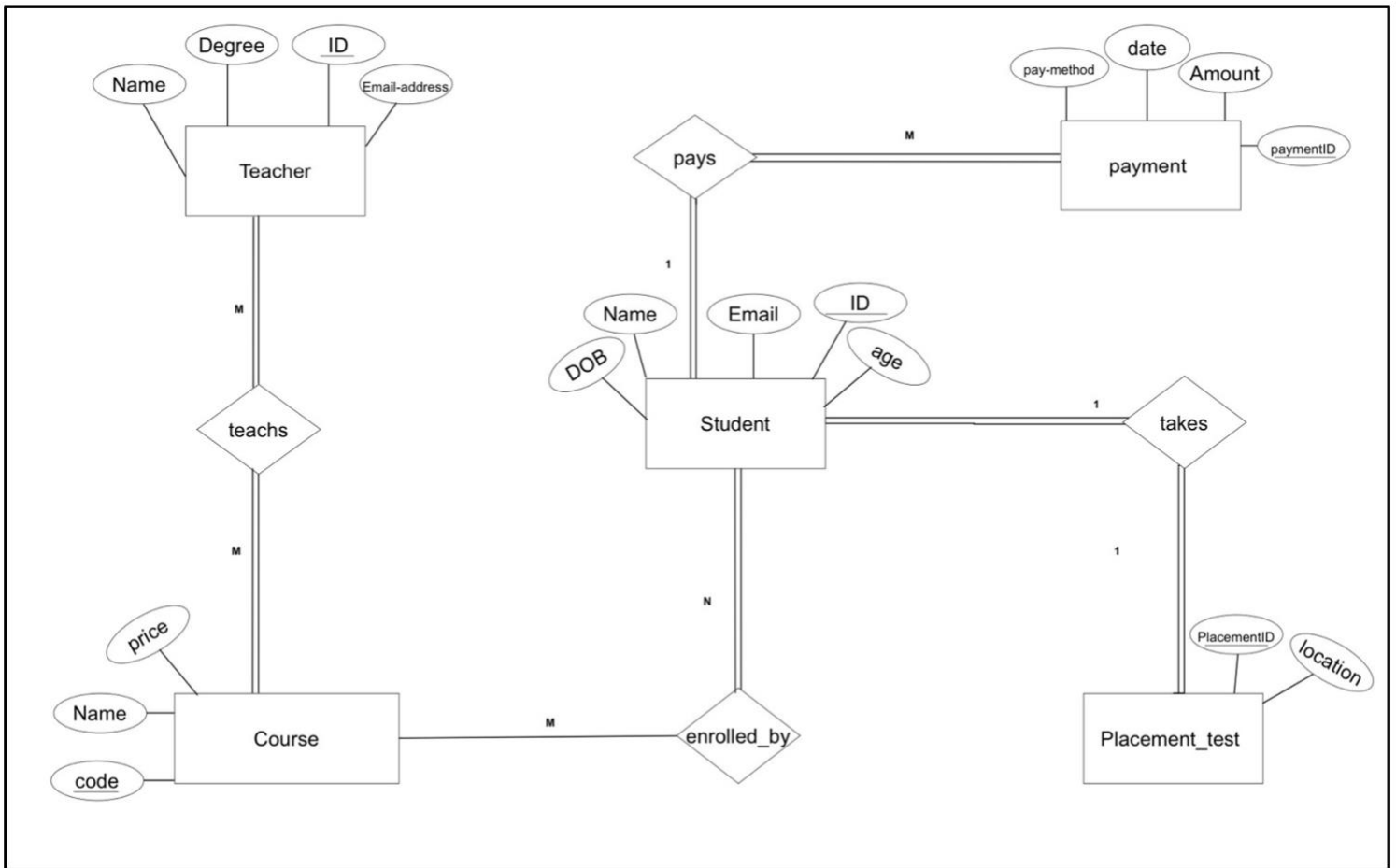
Group#: Group number five

Supervised By: Marwa saad almasoud

Project Description:

The British Council is an English institute. The British Council offers many courses for both adults and young learners to develop their English language in the best way possible. In these courses they use the communicative language teaching methodology, which means they have expert teachers with the latest techniques and technology to provide an excellent learning for learners. They can determine the right course for you and what you need to improve based on your level after you take the placement test. Also, they have specialist pathways classes that you can take beside your main course. These classes are structured to help you to improve on important areas of learning English such as English for life, work, study and writing

Entity Relationship Diagram (ERD):



Relational Schema:

Student (ID , Name , DOB , Email)

Payment (paymentID , st_ID , paymentMethod , date , Amount)

FK : st_ID references Student(ID)

Placement_test(placementID , location , ID)

FK : ID references Student(ID)

Course(code , Name , price)

enrolled_by(ID , code)

FK : ID references Student(ID)

FK : code referencees Course(code)

Teacher(ID , name,degree,Email-address)

teachs(ID,code)

FK1: ID references Teacher (ID)

FK2: code references coures (code)

DDL Commands:

```
Connected.
SQL> DROP TABLE Student CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE Student
  2  ( ID CHAR (10),
  3    Name VARCHAR2 (30),
  4    DOB DATE,
  5    Email VARCHAR2 (75),
  6    CONSTRAINT STU_PK PRIMARY KEY (ID));

Table created.

SQL>
SQL>
SQL> DROP TABLE Payment CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE Payment
  2  ( PaymentID CHAR (5),
  3    st_ID CHAR (10),
  4    paymentMethod VARCHAR2 (75),
  5    date_Of_Payment DATE,
  6    Amount CHAR (7),
  7    CONSTRAINT PAY_PK PRIMARY KEY (PaymentID),
  8    CONSTRAINT PAY_FK FOREIGN KEY (st_ID) REFERENCES Student (ID));

Table created.

SQL>
SQL>
SQL> DROP TABLE Placement_test CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE Placement_test
  2  ( PlacementID CHAR (3),
  3    loction VARCHAR2 (75),
  4    ID CHAR (10),
  5    CONSTRAINT PLA_PK PRIMARY KEY (PlacementID),
  6    CONSTRAINT PLA_FK FOREIGN KEY (ID) REFERENCES Student (ID));

Table created.

SQL>
SQL>
SQL> DROP TABLE Course CASCADE CONSTRAINT;
```

```
SQL> DROP TABLE Course CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE Course
  2  ( code CHAR (5),
  3    Name VARCHAR2 (30),
  4    price NUMBER (10),
  5    CONSTRAINT COU_PK PRIMARY KEY (code));

Table created.

SQL>
SQL>
SQL> DROP TABLE enrolled_by CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE enrolled_by
  2  ( ID CHAR (10),
  3    code CHAR (5),
  4    CONSTRAINT ENR_FK1 FOREIGN KEY (ID) REFERENCES Student (ID),
  5    CONSTRAINT ENR_FK2 FOREIGN KEY (code) REFERENCES Course (code));

Table created.

SQL>
SQL>
SQL> DROP TABLE Teacher CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE Teacher
  2  ( ID CHAR (5),
  3    Name VARCHAR2 (30),
  4    degree VARCHAR2 (30),
  5    Email_address VARCHAR2 (75),
  6    CONSTRAINT TEA_PK PRIMARY KEY (ID));

Table created.

SQL>
SQL>
SQL> DROP TABLE teaches CASCADE CONSTRAINT;

Table dropped.

SQL> CREATE TABLE teaches
  2  ( ID CHAR (5),
  3    code CHAR (5),
  4    CONSTRAINT TEA_FK1 FOREIGN KEY (ID) REFERENCES Teacher (ID),
  5    CONSTRAINT TEA_FK2 FOREIGN KEY (code) REFERENCES Course (code));

Table created.

SQL>
```

```

SQL> --Insert rows
SQL>
SQL> INSERT INTO Student VALUES('S839572174','Sara','17-feb-2000','sara55@gmail.com');
1 row created.

SQL> INSERT INTO Student VALUES('S987245562','Lama','07-jul-1997','la_25@yahoo.com');
1 row created.

SQL> INSERT INTO Student VALUES('S683265641','Nada','15-dec-2003','nada03@hotmail.com');
1 row created.

SQL> INSERT INTO Student VALUES('S436756721','Kalid','12-nov-2001','khh78@gmail.com');
1 row created.

SQL>
SQL> INSERT INTO Payment VALUES('07345','S683265641','VISA','05-oct-2020',330);
1 row created.

SQL> INSERT INTO Payment VALUES('90436','S839572174','MADA','12-may-2021',660);
1 row created.

SQL> INSERT INTO Payment VALUES('14563','S436756721','VISA','22-aug-2022',330);
1 row created.

SQL>
SQL> INSERT INTO Placement_test VALUES('D25','Riydh','S683265641');
1 row created.

SQL> INSERT INTO Placement_test VALUES('D09','Riydh','S839572174');
1 row created.

SQL> INSERT INTO Placement_test VALUES('D17','Riydh','S436756721');
1 row created.

SQL>
SQL>
SQL> INSERT INTO Course VALUES('S1111','Silver',330);
1 row created.

SQL> INSERT INTO Course VALUES('G2222','Gold',540);
1 row created.

SQL> INSERT INTO Course VALUES('P3333','Platinum',660);
1 row created.

SQL>
SQL>
SQL> INSERT INTO enrolled_by VALUES('S683265641','S1111');
1 row created.

SQL> INSERT INTO enrolled_by VALUES('S839572174','P3333');
1 row created.

SQL> INSERT INTO enrolled_by VALUES('S436756721','S1111');
1 row created.

SQL>
SQL>
SQL> INSERT INTO Teacher VALUES('T2397','David','Master','David@gmail.com');
1 row created.

SQL> INSERT INTO Teacher VALUES('T2524','Aditi','PhD','AditiSimia@yahoo.com');
1 row created.

SQL> INSERT INTO Teacher VALUES('T2258','Corine','PhD','Corine@hotmail.com');
1 row created.

SQL> INSERT INTO Teacher VALUES('T2467','Imane','master','imane@gmail.com');
1 row created.

```

```
SQL> INSERT INTO Teacher VALUES('T2158','Jim','PhD','Jim@gmail.com');
```

```
1 row created.
```

```
SQL>
```

```
SQL> INSERT INTO teaches VALUES('T2397','P3333');
```

```
1 row created.
```

```
SQL> INSERT INTO teaches VALUES('T2524','G2222');
```

```
1 row created.
```

```
SQL> INSERT INTO teaches VALUES('T2258','P3333');
```

```
1 row created.
```

```
SQL> INSERT INTO teaches VALUES('T2467','P3333');
```

```
1 row created.
```

```
SQL> INSERT INTO teaches VALUES('T2158','S1111');
```

```
1 row created.
```


DML Commands:

Part 1:

```
SQL>  SELECT *
      2  FROM Course
      3  WHERE price > 350;
```

CODE	NAME	PRICE
G2222	Gold	540
P3333	Platinum	660

```
SQL>
SQL>
SQL>  SELECT ID,Name
      2  FROM Student
      3  WHERE Name LIKE '%a';
```

ID	NAME
S839572174	Sara
S987245562	Lama
S683265641	Nada

```
SQL>  SELECT PaymentID , st_ID ,Amount
      2  FROM Payment
      3  WHERE paymentMethod = 'VISA' OR date_Of_Payment > '01-jun-2021';
```

PAYME	ST_ID	AMOUNT
07345	S683265641	330
14563	S436756721	330

Part 2:

```
SQL>
SQL> select count (ID)
  2   from teacher
  3   where email_address like '%gmail%';
```

```

COUNT(ID)
-----
          3
```

```
SQL>
SQL> select code, count(id)
  2   from teaches
  3   where code='P3333'
  4   group by code;
```

```
CODE    COUNT(ID)
-----  -
P3333          3
```

```
SQL> select code, min(price)
  2   from course
  3   group by code
  4   having min(price)<600
  5   order by min(price);
```

```
CODE    MIN(PRICE)
-----  -
S1111        330
G2222        540
```

```
SQL> ■
```

Work Distribution:

NAME	ID	Percentage	WORK
<i>Renad turki aldosari</i>	<i>443007752</i>	<i>20%</i>	<i>Discussion with the group, Distribution of work among group members, and wrote one querie</i>
<i>Raghad sami mohammed</i>	<i>443007274</i>	<i>20%</i>	<i>Discussion with the group and wrote tow queries , and wrote the project file</i>
<i>Sarah manea alhussein</i>	<i>443007289</i>	<i>20%</i>	<i>Discussion with the group and wrote one querie</i>
<i>Lama abdullah almohji</i>	<i>443007272</i>	<i>20%</i>	<i>Discussion with the group and create tables,and wrote one querie</i>
<i>Noura nasser alaboud</i>	<i>443003849</i>	<i>20%</i>	<i>Discussion with the group and wrote one querie</i>