Coursework2-Presentation

Name: Tianpeng Huang

Title of assessment: 23111-Cwk2-S-Advanced Databases

Module code: COMP23111

Date: 25/11/2021

Part A: Normalisation

UNF-Identify all fields and sample data. Identify key and

underline it

Quiz ID	34		
Quiz Name	SQL		
Quiz Author	Peter Parker		
Quiz Available	Yes		
Quiz Duration	60 minutes		
Student ID	44		
Student Name	Duncan Hull		
Date of Attempt	22/11/2020		
Question id	1	2	3
Question_title	Which SQL statement is used to extract data from a database?	Which SQL statement is used to insert new data in a database?	With SQL,how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?
Question_option	SELECT OPEN EXTRA CTGET	INSERT NEW INSERT INTO ADD RECORD ADD NEW	SELECT*FROM Persons WHERE FIRSTNAME<'Peter' SELECT [all] FROM Person WHERE FirstName = 'Peter' SELECT*FROM Persons WHERE FirstName = 'Peter' SELECT [all] FROM Person WHERE FirstName LIKE 'Peter'

1NF – Remove Repeating Attributes, identify new compound key

Quiz ID	34
Quiz Name	SQL
Quiz Author	Peter Parker
Quiz Available	Yes
Quiz Duration	60 minutes
Student ID	44
Student Name	Duncan Hull
Date of Attempt	22/11/2020

Quiz ID	34
Question id	1
Question_title	Which SQL statement is used to extract data from a
	database?
Question_option	SELECT
	OPEN
	EXTRA
	CTGET

2NF – Check Partial Dependencies, Remove any to new table with copy of determinant

Quiz ID	34
Quiz Name	SQL
Quiz Author	Peter Parker
Quiz Available	Yes
Quiz Duration	60 minutes

Student ID	44
Student Name	Duncan Hull

Quiz ID	34
Student ID	44
Date of Attempt	22/11/2020

Quiz ID	34
Question_id	1
Question_title	Which SQL statement is used to extract data from a database?
Question_option	SELECT OPEN EXTRA CTGET

3NF – Check Transitive Dependencies, Remove any to new table with copy of determinant

Quiz ID	34
Quiz Name	SQL
Quiz Author	Peter Parker
Quiz Available	Yes
Quiz Duration	60 minutes

Student ID	44
Student Name	Duncan Hull

Quiz ID	34
Student ID	44
Date of Attempt	22/11/2020

Quiz ID	34
Question_id	1
Question_title	Which SQL statement is used to extract data from a database?

Question_title	Which SQL statement is used to extract data from a
	database?
Question_option	SELECT
	OPEN
	EXTRA
	CTGET

Part B: Relational Schema

Quiz (Quiz id, Quiz name, Quiz author, Quiz available, Quiz duration)

PK: Quiz_id

NOT NOLL: Quiz id, Quiz name, Quiz author, Quiz available, Quiz duration

Student (Student_id, Student_name Student_password)

PK: Student id

NOT NOLL: Student id, Student name Student password

Staff (Staff id, Student name Student password)

PK: Staff id

NOT NOLL:Staff id, Student name Student password

Student_Time (Quiz id, Student id, Date, Score)

PK: Quiz id, Student id, Date

FK: Quiz_id --> Quiz(Quiz_id)

Student_id --> Student(Student_id)

NOT NOLL: Student id, Student id, Date, Score

Staff Time (Quiz id, Staff id, Date, Score)

PK: Quiz id, Staff id, Date

FK: Quiz id --> Quiz(Quiz id)

Staff_id --> Staff(Staff_id)

NOT NOLL: Staff id, Staff id, Date

DEFAULT Score = NULL

Question (Quiz_id, Question_id, Questions)

PK: Quiz id, Question id

FK: Quiz id --> Quiz(Quiz id)

NOT NOLL: Quiz id, Question id, Questions

Answer (Quiz id, Question id, Options, Answer, Score)

PK: Quiz id, Question id, Options

FK: Quiz id --> Quiz(Quiz id)

(Quiz_id,Question_id) --> Question(Quiz_id, Question_id)

NOT NOLL: Quiz id, Question id, Options, Answer

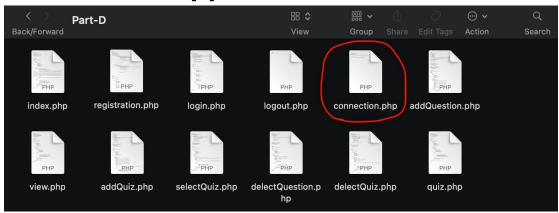
DEFAULT Score = NULL

Part C: Implementation

MySQL Statements used to implement my Part B schema. The Part C.sql file containing this code has been submitted, please see the folder I submitted.



Part D: The Application



Connect phpmyadmin and Mysql

Part E: Stored Procedures and Triggers

