

UNF

Quiz id → key

Quiz name

Quiz author

Quiz visibility

Quiz duration

Student id → multiple values

Student name -||-

Date attempted -||-

Score of attempt -||-

Question text -||-

Question answers -||-

Question correct answer -||-

1NF

Quizzes Attempts Questions

id

name

author

visible

duration

~~uid~~ uid

name

Attempt id

date

score

Question id

text

a

b

c

d

answer

Composite key
(Quiz) id,
~~uid~~,
Attempt id,
Question id)

2NF

Quizzes

id

name

author

visible

duration

Attempts

id

Qid (FK)

uid

name

date

score

Questions

id

Qid (FK)

text

a

b

c

d

answer

3NF

Quizzes

id (PK)

name

author_uid (FK)

visible

duration

Users

uid (PK)

name

(password)

(staff)

Attempts

id (PK)

qid (FK)

uid (FK)

date

score

Questions

id (PK)

qid (FK)

text

a

b

c

d

answer

Quizzes

id int PK
title varchar(255) not null
duration int unsigned NN
available bit NN
modifiable bit NN

Questions

id PK int
qid int FK
text varchar(2048) NN
a varchar(1023) NN
b-d varchar(1023) NULL
answers varchar(1) NN

Users

uid varchar(255) PK
name varchar(255) NN
password varchar(255) NN
staff bit NN

Attempts

id int PK
uid varchar(255) FK
qid int FK
date DATE NN
score double NN