Data Dictionary of a quiz application

User					
Field	Type	NULL	Key	Default	Extra
user_name	varchar(20)	NO	primary key	NULL	
password	varchar(20)	NO		NULL	
user_type	char(1)	NO		S	

check(password.length() >= 8)

Quiz					
Field	Type	NULL	Key	Default	Extra
result_id	int	NO	primary key	NULL	
topic_id	varchar(5)	NO	foreign key	NULL	
number_of_questions	int	NO		5	
level	int	YES		1	
user_name	varchar(20)	NO	foreign key	NULL	
score	int	NO		0	
time	timestamp	NO		NULL	
duration	int	NO		NULL	

if level = NULL, mixed question set

Questions					
Field	Type	NULL	Key	Default	Extra
question_id	int	NO	primary key	NULL	
topic_id	varchar(5)	NO	foreign key	NULL	
question_text	varchar(1000)	NO		NULL	
level	int	NO		1	
option_a	varchar(10000)	NO		NULL	
option_b	varchar(10000)	NO		NULL	
option_c	varchar(10000)	NO		NULL	
option_d	varchar(10000)	NO		NULL	
correct_answer	varchar(10000)	NO		NULL	

DetailedResult					
Field	Type	NULL	Key	Default	Extra
question_id	int	NO	foreign key	NULL	
marked_answer	varchar(10000)	NO		NULL	

Topics					
Field	Type	NULL	Key	Default	Extra
topic_id	varchar(5)	NO	primary key	NULL	
topic_name	varchar(50)	NO		NULL	