مهدیه تهامی 40231011

شمای رابطه ای

Relation	Constraint
Player (P ID int, A_ID int, Username	p_id: auto_increment primary key
varchar(50), Email varchar(100), Pass	a_id: not null
varchar(255), User_Banned Boolean,	username: not null
Sign_In_Date date)	email: not null unique
	pass: not null
	user_banned: not null
	a_id: references Authorities
Authorities (a id int, question_management	a_id: auto_increment primary key
boolean, user_ban boolean)	question_qanagement: not null
	users_ban: not null
Category (<u>c id</u> int, title varchar(50))	c_id: auto_increment primary key
	title: not null unique
Question (Q_ID int, C_ID int, Question_Text	q_id: auto_increment primary key
text, Option_A varchar(100), Option_B	c_id: not null references Category
varchar(100), Option_C varchar(100),	question_text: not null
Option_D varchar(100), Correct_Option char,	option_a: not null
Creator_ID int, Difficulty varchar(10),	option_b: not null
Approval_State Boolean)	option_c: not null
	option_d: not null
	correct_option: not null - in ('A', 'B', 'C', 'D')
	creator_id: not null
	difficulty: not null - in ('Easy', 'Medium',
	'Hard')
	approval_state: not null references player
Round (<u>r id</u> int, round_num int, p1_answer	r_id: auto_increment primary key
char, p2_answer char, start_time timestamp,	round_num: not null
end_time timestamp)	start_time: not null
	p1_answer in ('A', 'B', 'C', 'D')
	p2_answer in ('A', 'B', 'C', 'D')
	round_num > 0 and < 4
matches (<u>m_id</u> int, p1_id int, p2_id int,	m_id: auto_increment primary key
winner_id int, start_time timestamp,	p1_id: not null references player
end_time timestamp, match_active boolean)	p2_id: references player
	start_time: not null
	match_active: not null
	winner_id: references player

R_Q_M (<u>q_id_int, r_id_int, m_id_int</u>)	Primary key (q_id, r_id, m_id)
	q_id references Question
	r_id references Round
	m_id references Matches
Statistics (s id int, p_id int,	s_id: auto_increment primary key
total_matches_count int,	p_id: unique not null references Player on
won_matches_count int, accuracy float, xp	delete cascade
int)	total_matches_count: not null
	won_matches_count: not null
	accuracy: not null
	xp: not null