

user	
PK	<u>user_id: long</u>
UK1	oauth_key: String
UK2	display_name: String

Every user who plays Codebreaker is recorded in this entity using the oauth 2.0 identifier as a unique key.

Every game that is completed is completed by exactly one user, however, over time a user may complete multiple games -- each of which ends up as a game result.

game_result	
PK	<u>game_result_id: long</u>
IX1	timestamp: Instant
IX2	code_length: int
IX3, IX4	guess_count: int
IX4, IX5	duration: Duration
FK1	user_id: long

When a game is completed, the result is summarized with an instance of this entity. In the case of the android app, all games have the same pool of characters so the size of the pool isn't included in this entity.