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| ITEC 3200 |
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| Executive Summary |

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Executive Summary

This project is about creating a database for a chess tournament, including all information about a game (they may publish interesting game for later).

Entities for the tournament would be: PLAYER, GAME, MOVE.

Also, for the publishing books and review after the tournament, we’d need 2 more entities: RATER and RATING.

A game will be between 2 players, and including many turns (move). A rater can give rating about a game.

We’d use chess-notation in the field movement of table MOVE.

The database will be implemented using Microsoft Access 2010.

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ER Diagram/Schema

PLAYER(P\_ID, Name, BrithDate, Gender, Address, City, State, Country, Zipcode, Phone)

GAME(Game\_ID, Round, Player1, Player2, PlayingDate, TimeLimit, Result)

Fk: Player1 🡺 PLAYER

Player2 🡺 PLAYER

MOVE(Game\_ID, Turn\_No, Movement)

Fk: Game\_ID 🡺 GAME

RATER(R\_ID, Name, BrithDate, Gender, Address, City, State, Country, Zipcode, Phone)

RATING(R\_ID, Game\_ID, RATING)

Fk: R\_ID 🡺 RATER

Game\_ID🡺 GAME



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Query Implementation

### Query 1

* List of official games (non-practice), has more than 50 turns.

### Query 2

* List of game sorted by PlayingDate ascendingly.

### Query 3

* Number of game and number of turns in the longest game.

### Query 4

* List of games along with names of players.

### Query 5

* List of games along with names of winners.

### Query 6

* Player and number of victories.

### Query 7

* Victories of specific players.

### Query 8

* List all the ‘check’ moves.

### Query 9

* The player won most.

### Query 10

* List of games which are not rated yet.

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Forms and Reports

The Custom Form will be based on GAME table as mainly. It is also designed with lot of features:

* There 3 tab:
  + The first tab will include all the field of GAME table. Additionally, 2 combo boxes are designed to pick 2 PLAYER and replaced that 2 foreign keys text boxes as well..
  + The second tab is the subform of MOVE table, and it’s designed to autofill the Turn\_No.
  + The third tab is the subform of RATING table, and its RATER field is designed as a combo box. When an R\_ID is selected, the Rater’s name and country will be automatically shown as well.

There are 2 reports:

* Tabular Report is about the GAME table.
* Group Report is about RATER and their RATING, group by RATER.