**ERD for Online Bets**



1. **Each online member may have a number of wallets (accounts). Each wallet contains the member’s id and the amount of money they have in this wallet (account).**
2. **A member places bets on sporting events actions. Examples of sporting events actions include: a particular horse winning a race, two teams drawing a soccer match, a particular team winning the rugby world cup.**
3. **Any number of members can lay a bet on a particular action e.g. several members bet on Manchester united to beat Chelsea.**
4. **Any number of different actions can be assigned odds for a particular sporting event. e.g New Zeland to win rugby world cup odds 6/4, Ireland to win rugby world cup odds 4/1.**
5. **Records of all movements of money in or out a wallet’s balance are recorded in a transaction table.**
6. **There are a pre-defined number of transaction types. Transaction types include for example, with drawl of money, lodgement of money, expenditure on a bet, receipts from a win on a bet.**

**Exam Rules** Use the calry\calry server to complete this exam. Use the database with your id followed by TSQLProject as the database for this exam. **Note the tables already exist in your database.**

**IPO Hand-In 🡪 Wednesday 22nd March by10:00am** (email the spreadsheet to [harte.padraig@itsligo.ie](mailto:harte.padraig@itsligo.ie))**.** Note the answer will be given on Wednesday 22nd in the lecture class so **no late entry will be allowed.**

**Stored Procedure Hand-in** 🡪 **Wednesday 26th April @10:00am** (email the completed stored procedure to [harte.padraig@itsligo.ie](mailto:harte.padraig@itsligo.ie)). Note the answer will be given on **Wednesday 26th** in the lecture class so **no late entry will be allowed.**

**TSQL 🡪 Stored procedure**

Create a stored procedure (**call it Assign1**) which will **insert a** bet in the BetsTBL for a member**.** The data that will be passed to the stored procedure is: The ActionID, the MemberID, and the BetAmount.

The data for the other columns in the BetsTBL will be got as follows

1. BetID 🡪 make sure that this column is an identity column which will automatically generate the next BetID.
2. BetDate 🡪 this column will be filled by your sproc with todays date 🡪 use the GetDate() function.
3. Odds 🡪 the odds will be read from the Odds column in the ActionTBL for the inputted ActionID.

**Business Requirement**

1. Member are not allowed to place more than 5 bets in the current month. Your sproc must therefore:-
   1. Count the number of bet the member has made this month 🡪 use the Month() and the GetDate() functions.
   2. If the number of bets is greater than or equal to 5 your sproc must send an error message of “***Sorry bet is refused 5 bets have been made this month***”
2. Members cannot spend over their balance on a bet. – get this from the WalletTBl. Your sproc must therefore:
   1. Read in to an internal variable the Balance from the WalletTBl for the inputted MemberID.
   2. If the Bet Amount is greater than the Balance your sproc must send an error message of “Sorry bet is refused Wallet Balance is breached”.
   3. If the Balance is not breached your sproc must update the Balance in the WalletTBL (reduce the Balance by the Bet Amount.
3. Create an IPO for this question (note include a flow chart for the process part of the IPO).
4. Create the stored procedure to insert the purchase.

Marks will be awarded as follows

|  |  |
| --- | --- |
| IPO | 20% |
| External Variables | 5% |
| Internal Variables | 5% |
| Data Reads | 20% |
| Business Logic | 15% |
| Insert/Update | 20% |
| Error handling | 15% |
| Total | 100% |