-----------------------------------------------------

User

-----------------------------------------------------

- UserID (Primary Key, int)

- Username (string)

- Email (string, Unique)

- Password (string, Hashed)

- Age (int)

- UserRole (string)

-----------------------------------------------------

+ createUser()

+ getUserByID(userID)

+ login(username: string, password: string)

+ updateUserProfile(userID, updatedInfo)

+ deleteUser(userID)

------------------------------------------------------

------------------------------------------------------

Driver

------------------------------------------------------

- DriverID (Primary Key, int)

- Name (string)

- DateOfBirth (DateTime)

- Description (string)

- ImageURL (string)

--------------------------------------------------------

+ createDriver(driverInfo)

+ getDriverByID(driverID)

+ updateDriver(driverID, updatedInfo)

+ deleteDriver(driverID)

-----------------------------------------------------------

------------------------------------------------------

Season

------------------------------------------------------

- SeasonID (Primary Key, int)

- Year (int)

- IsCurrentSeason (bool)

- NextRace (string, DateTime)

--------------------------------------------------------

+ createSeason(seasonInfo)

+ getSeasonByID(seasonID)

+ updateSeason(seasonID, updatedInfo)

+ deleteSeason(seasonID)

-----------------------------------------------------------

------------------------------------------------------

Race

------------------------------------------------------

- RaceID (Primary Key, int)

- SeasonID (Foreign Key, int)

- Place (string)

- Date (DateTime)

- Time (string)

- Description (string)

- ImageURL (string)

--------------------------------------------------------

+ createRace(raceInfo)

+ getRaceByID(raceID)

+ updateRace(raceID, updatedInfo)

+ deleteRace(raceID)

-----------------------------------------------------------

------------------------------------------------------

F1History

------------------------------------------------------

- HistoryID (Primary Key, int)

- Heading (string)

- Paragraph (string)

--------------------------------------------------------

+ createHistory(historyInfo)

+ getHistoryByID(historyID)

+ updateHistory(historyID, updatedInfo)

+ deleteHistory(historyID)

-----------------------------------------------------------

------------------------------------------------------

TeamHistory

------------------------------------------------------

- HistoryID (Primary Key, int)

- Heading (string)

- Paragraph (string)

--------------------------------------------------------

+ createHistory(historyInfo)

+ getHistoryByID(historyID)

+ updateHistory(historyID, updatedInfo)

+ deleteHistory(historyID)

-----------------------------------------------------------

------------------------------------------------------

Gallery

------------------------------------------------------

- ImageID (Primary Key, int)

- ImageURL (string)

- Caption (string)

--------------------------------------------------------

+ uploadImage(imageInfo)

+ getImageByID(imageID)

+ updateImage(imageID, updatedInfo)

+ deleteImage(imageID)

-----------------------------------------------------------

------------------------------------------------------

DiscussionMain

------------------------------------------------------

- DiscussionID (Primary Key, int)

- Topic (string)

--------------------------------------------------------

+ createDiscussion(discussionInfo)

+ getDiscussionByID(discussionID)

+ updateDiscussion(discussionID, updatedInfo)

+ deleteDiscussion(discussionID)

-----------------------------------------------------------

------------------------------------------------------

Discussion

------------------------------------------------------

- CommentID (Primary Key, int)

- DiscussionID (Foreign Key, int)

- Username (string)

- Comment (string)

- Timestamp (DateTime)

--------------------------------------------------------

+ addComment(discussionID, commentInfo)

+ getCommentByID(commentID)

+ updateComment(commentID, updatedInfo)

+ deleteComment(commentID)

-----------------------------------------------------------

------------------------------------------------------

Ticket

------------------------------------------------------

- TicketID (Primary Key, int)

- UserID (Foreign Key, int)

- SeasonID (Foreign Key, int)

- RaceID (Foreign Key, int)

- Corner (string)

- Price (decimal)

- Status (string)

--------------------------------------------------------

+ bookTicket(ticketInfo)

+ getTicketByID(ticketID)

+ updateTicket(ticketID, updatedInfo)

+ cancelTicket(ticketID)

-----------------------------------------------------------

------------------------------------------------------

TicketBookingHistory

------------------------------------------------------

- BookingHistoryID (Primary Key, int)

- TicketID (Foreign Key, int)

- BookingTimestamp (DateTime)

- StatusBeforeBooking (string)

- StatusAfterBooking (string)

--------------------------------------------------------

+ recordTicketBookingHistory(bookingInfo)

+ getBookingHistoryByTicketID(ticketID)

+ deleteBookingHistory(bookingHistoryID)

-----------------------------------------------------------

------------------------------------------------------

Poll

------------------------------------------------------

- PollID (Primary Key, int)

- Question (string)

- Option1 (string)

- Option2 (string)

- VotesForOption1 (int)

- VotesForOption2 (int)

--------------------------------------------------------

+ createPoll(pollInfo)

+ voteForOption(pollID, option)

+ getPollByID(pollID)

+ updatePoll(pollID, updatedInfo)

+ deletePoll(pollID)

-----------------------------------------------------------

------------------------------------------------------

UserPermission

------------------------------------------------------

- PermissionID (Primary Key, int)

- UserID (Foreign Key, int)

- Permission (string)

--------------------------------------------------------

+ assignPermission(userID, permission)

+ removePermission(userID, permission)

+ getPermissions(userID)

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