@startuml

User <|-- Ticket : 1 .. \*

UserPermission --o User : 1 .. \*

Season --o Race : 1 .. \*

DiscussionMain --o Discussion : 1 .. \*

User --o Discussion : 1 .. \*

User --o Poll : 1 .. \*

Driver --o Race : 1 .. \*

F1History --o Season : 1 .. \*

TeamHistory --o Season : 1 .. \*

Gallery --o Season : 1 .. \*

class User {

- UserID: int (Primary Key)

- 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)

}

class Driver {

- DriverID: int (Primary Key)

- Name: string

- DateOfBirth: DateTime

- Description: string

- ImageURL: string

+ createDriver(driverInfo)

+ getDriverByID(driverID)

+ updateDriver(driverID, updatedInfo)

+ deleteDriver(driverID)

}

class Season {

- SeasonID: int (Primary Key)

- Year: int

- IsCurrentSeason: bool

- NextRace: string, DateTime

+ createSeason(seasonInfo)

+ getSeasonByID(seasonID)

+ updateSeason(seasonID, updatedInfo)

+ deleteSeason(seasonID)

}

class Race {

- RaceID: int (Primary Key)

- SeasonID: int (Foreign Key)

- Place: string

- Date: DateTime

- Time: string

- Description: string

- ImageURL: string

+ createRace(raceInfo)

+ getRaceByID(raceID)

+ updateRace(raceID, updatedInfo)

+ deleteRace(raceID)

}

class F1History {

- HistoryID: int (Primary Key)

- Heading: string

- Paragraph: string

+ createHistory(historyInfo)

+ getHistoryByID(historyID)

+ updateHistory(historyID, updatedInfo)

+ deleteHistory(historyID)

}

class TeamHistory {

- HistoryID: int (Primary Key)

- Heading: string

- Paragraph: string

+ createHistory(historyInfo)

+ getHistoryByID(historyID)

+ updateHistory(historyID, updatedInfo)

+ deleteHistory(historyID)

}

class Gallery {

- ImageID: int (Primary Key)

- ImageURL: string

- Caption: string

+ uploadImage(imageInfo)

+ getImageByID(imageID)

+ updateImage(imageID, updatedInfo)

+ deleteImage(imageID)

}

class DiscussionMain {

- DiscussionID: int (Primary Key)

- Topic: string

+ createDiscussion(discussionInfo)

+ getDiscussionByID(discussionID)

+ updateDiscussion(discussionID, updatedInfo)

+ deleteDiscussion(discussionID)

}

class Discussion {

- CommentID: int (Primary Key)

- DiscussionID: int (Foreign Key)

- Username: string

- Comment: string

- Timestamp: DateTime

+ addComment(discussionID, commentInfo)

+ getCommentByID(commentID)

+ updateComment(commentID, updatedInfo)

+ deleteComment(commentID)

}

class Ticket {

- TicketID: int (Primary Key)

- UserID: int (Foreign Key)

- SeasonID: int (Foreign Key)

- RaceID: int (Foreign Key)

- Corner: string

- Price: decimal

- Status: string

+ bookTicket(ticketInfo)

+ getTicketByID(ticketID)

+ updateTicket(ticketID, updatedInfo)

+ cancelTicket(ticketID)

}

class Poll {

- PollID: int (Primary Key)

- Question: string

- Option1: string

- Option2: string

- VotesForOption1: int

- VotesForOption2: int

+ createPoll(pollInfo)

+ voteForOption(pollID, option)

+ getPollByID(pollID)

+ updatePoll(pollID, updatedInfo)

+ deletePoll(pollID)

}

class UserPermission {

- PermissionID: int (Primary Key)

- UserID: int (Foreign Key)

- Permission: string

+ assignPermission(userID, permission)

+ removePermission(userID, permission)

+ getPermissions(userID)

}

@enduml