Platform:

We will be using the CS UGrad Oracle installation and provided PHP.

Deliverable 1:

- Customers Customers can view the list of matches ordered by time. Customers will be able to click into matches to see the details about matches and a list of players enrolled in the matches will also be displayed. The statistical data of players can be also retrieved from the table. Customers will be able to sign in with their customerID and subscribe or unsubscribe multiple matches or players. After subscription, the matches that are related to the customers' interest will be pinned at the top of the list. A filter function will allows customers to specify the detail of list.
- Employee Employee can modify the content in the database (entering new match). Employees will be in charge of insert latest match information and statistic into our table.

Deliverable 2: When users want to subscribe new team and player, we will insert new tuples into the subscription table.

Deliverable 3: When users want to unsubscribe team and player, we will delete old tuples from the subscription table.

Deliverable 4: **When employees want to UPDATE the score of a specific match, the attributes in match table will be updated.**

Deliverable 5: When we are finding the performance of a player in a given match and display the players information at the same time, We join all three table together.

Deliverable 6: When we are finding the player who earn the most of points in the league, we joined the perform and player tables.

Deliverable 7: When we want to calculate who is the player earn the highest points in the league we need to first find all SUM score for all player then find the best point taker by using GROUP BY (player name , league name).

Deliverable 8: We apply filter on matches by date by SELECT matches WHERE match date is between the date user chosen

Deliverable 9: We can SELECT all the match that related to a user's subscription.

Deliverable 10: We used set division to find out the Tier 1 players in given team and start label them in match details.

Deliverable 11: One view is the default view to display all matches two team's name and score in order of match date.

Deliverable 12:

1. (Haowei)Create the tables and other database objects. Be sure to save your SQL scripts, as you are very likely to DROP and re-create your work. In fact, we may ask you to do this, during your demo.
2. (Yuetong)Create data for the tables. Then, populate (load) the tables. Be sure to save your scripts. You might want to create a bunch of SQL INSERT statements to load the data. You might even want to write a short program that loops and creates those SQL INSERT statements based on data being read from a file, or that generates the data from scratch (possibly via random number generators).
3. (Yanheng)Code each set of queries and test them in SQL (e.g., Oracle's SQL*Plus or another DBMS of your choice).
4. (Boyi)Embed the SQL statements in a program, and code the programming logic. Use a graphical user interface. Format the output appropriately (e.g., in the form of a results window, an HTML page, etc.)

    - The application logic is likely to take up more of the time than any other individual task.
    - All of your group members must take part in this talk because embedded SQL in a host language should be practiced by everyone, and is a learning goal of this course. However, it is OK if some group members do more programming than others, providing those other group members do more of the other tasks.
    - Be prepared to DROP your tables and re-create them, if something significant goes wrong during the UPDATE, INSERT, and DELETE operations.
5. (Group work)Test each set of queries. Determine how errors will be handled. Take appropriate action. For example, what happens if a user inserts a duplicate key?
6. (Yangheng)Document the project.
7. (Group work)All group members must be present to demo your application to a TA. This will take place near the end of the term