**ICC Test Cricket**

**Dataset : ICC Test Batting Figures.csv**

**License: Public**

**Source: https://www.kaggle.com**

Test cricket is the form of the sport of cricket with the longest match duration and is considered the game's highest standard. Test matches are played between national representative teams that have been granted ‘Test status’, as determined and conferred by the International Cricket Council (ICC). The term Test stems from the fact that the long, gruelling matches are mentally and physically testing. Two teams of 11 players each play a four-innings match, which may last up to five days (or longer in some historical cases). It is generally considered the most complete examination of a team's endurance and ability.

The Data consists of runs scored by the batsmen from 1877 to 2019 December.

**Data Dictionary:**

|  |  |  |
| --- | --- | --- |
| **Sl No** | **Column Name** | **Column Description** |
| 1 | Player | Name of the player and country the player belongs to |
| 2 | Span | The duration of years between which the player was active |
| 3 | Mat | No of matches played by the player |
| 4 | Inn | No of innings played by the player |
| 5 | NO | No of matches the player was NOT OUT by the end of the match. |
| 6 | Runs | Total number of runs scored by the player |
| 7 | HS | Highest Score of the player |
| 8 | Avg | Average runs scored by the player in all the matches |
| 9 | 100 | No of centuries scored by the player |
| 10 | 50 | No of fifties scored by the player |
| 11 | 0 | No of Duck outs of the player |
| 12 | Player Profile | Link to the profiles of the players |

**Tasks to be performed:**

1. Import the csv file to a table in the database.
2. Remove the column 'Player Profile' from the table.

alter table icc drop column `Player Profile`;

1. Extract the country name and player names from the given data and store it in seperate columns for further usage.

**#add new column fullname**

alter table icc add column fullname varchar(50);

update icc

set fullname=trim(substring\_index(Player,'(',1));

**#Add a column country\_0 as intermediate column**

alter table icc add column Country\_0 varchar(10);

**#update the values for country\_0**

update icc

set country\_0=replace(substring(player, instr(trim(player),'(')+1) , ')','');

**#Add a column country**

alter table icc add column Country varchar(10);

**#update the values for country**

update icc

set country= substr( country\_0, INSTR(country\_0,'/')+1) ;

1. From the column 'Span' extract the start\_year and end\_year and store them in seperate columns for further usage.

**#Add a column start year and end year**

alter table icc add column start\_year varchar(10);

alter table icc add column end\_year varchar(10);

**#update the values for Start year and end year**

update icc

set start\_year=substr( span, 1,4);

update icc

set end\_year=substr( span, INSTR(span,'-')+1);

1. The column 'HS' has the highest score scored by the player so far in any given match. The column also has details if the player had completed the match in a NOT OUT status. Extract the data and store the highest runs and the NOT OUT status in different columns.

**#Add a column Not\_Out\_Status and Highest\_score**

alter table icc add column Not\_Out\_Status varchar(1);

alter table icc add column Highest\_score int;

**#update the values for Not\_Out\_Status and Highest\_score**

update icc

set Not\_Out\_Status=IF(INSTR(HS,'\*')=0 ,'N','Y');

update icc

set Highest\_score=Replace(HS,'\*','');

1. Using the data given, considering the players who were active in the year of 2019, create a set of batting order of best 6 players using the selection criteria of those who have a good average score across all matches for India.

**#Batting order 1 - Players with Good average batting score**

Select \*

from (

Select \* , Dense\_Rank() over (order by Avg Desc) as Good\_Avg\_Rank

from icc

where Country='INDIA'

and end\_year => 2019

)a

where Good\_Avg\_Rank<=6;

1. Using the data given, considering the players who were active in the year of 2019, create a set of batting order of best 6 players using the selection criteria of those who have highest number of 100s across all matches for India.

**#Batting order 2 - players with highest number of 100s**

Select \*

from (

Select \* , Rank() over(order by `100` desc) as Good\_Avg\_Rank

from icc

where Country='INDIA'

and end\_year => 2019

)a

where Good\_Avg\_Rank<=6;

1. Using the data given, considering the players who were active in the year of 2019, create a set of batting order of best 6 players using 2 selection criterias of your own for India.

**#Batting order 3 - players with highest number of 100s and 50s**

Select \*

from (

Select \* , Rank() over(order by `100`+`50` desc) as Good\_Avg\_Rank

from icc

where Country='INDIA'

and end\_year => 2019

)a

where Good\_Avg\_Rank<=6;

**#Batting order 4 - players with lowset number matches played in test match**

Select \*

from (

Select \* , Rank() over(order by mat) as Good\_Avg\_Rank

from icc

where Country='INDIA'

and end\_year => 2019

)a

where Good\_Avg\_Rank<=6;

1. Create a View named ‘Batting\_Order\_GoodAvgScorers\_SA’ using the data given, considering the players who were active in the year of 2019, create a set of batting order of best 6 players using the selection criteria of those who have a good average score across all matches for South Africa.

**#Batting order - Players with Good average batting score**

Create View Batting\_Order\_GoodAvgScorers\_SA

As

(

Select \*

from (

Select \* , Dense\_Rank() over (order by Avg Desc) as Good\_Avg\_Rank

from icc

where Country='SA'

and end\_year => 2019

)a

where Good\_Avg\_Rank<=6

);

Select \* from Batting\_Order\_GoodAvgScorers\_SA;

1. Create a View named ‘Batting\_Order\_HighestCenturyScorers\_SA’ Using the data given, considering the players who were active in the year of 2019, create a set of batting order of best 6 players using the selection criteria of those who have highest number of 100s across all matches for South Africa.

**#Batting order - players with highest number of 100s**

Create View Batting\_Order\_HighestCenturyScorers\_SA

As

(

Select \*

from (

Select \* , Rank() over(order by `100` desc) as Good\_Avg\_Rank

from icc

where Country='SA'

and end\_year => 2019

)a

where Good\_Avg\_Rank<=6

);

Select \* from Batting\_Order\_HighestCenturyScorers\_SA;