T20 WORLD CUP DATA ANALYSIS OF BATSMANS AND BOWLERS
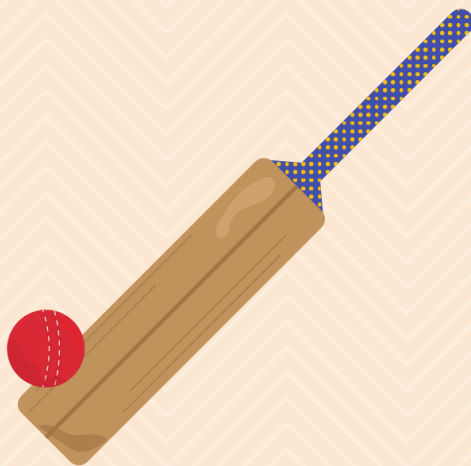
```sql
-- Batting Stats Overall analysis****

-- Finding duplicate records:
SELECT Player, Runs, count(*) from `batting stats overall`
group by Player
having count(*)>=1;


-- No. of Duplicate records


-- Top 5 highest % of runs scored by batsman in boundaries
SELECT Player, `% Runs in Boundaries` from `batting stats overall`
group by Player
order by `% Runs in Boundaries` desc
limit 5;


-- Chris Gayle has scored most number of runs in boundaries i.e. around 72% among all batsmans.


  -- Top 5 batsman who has highest Strike Rate among all batsmans.
  SELECT Player, Runs, SR from `batting stats overall`
group by Player
order by SR desc
limit 5;


  -- Shahid Afridi has the highest strike rate among all batsman in t20 world cup
```

```sql
-- Find bottom 5 batsman who has least strike rate among all batsmans.

 SELECT Player, Runs, SR from `batting stats overall`
group by Player
order by SR asc
 limit 5;


-- Mushfiqur Rahim has the lowest strike rate among all batsman in t20 world cup.alter

-- Filter "batting stats overall" based on the above 500 runs or below 500 runs.

 -- STEP 1: make an extra column of runs scored above 500 and below 500.
 ALTER table `batting stats overall` ADD COLUMN `Runs Scored` varchar (25);

 -- update column based on runs scored:
 UPDATE `batting stats overall`
SET `Runs Scored` = "Above 500 runs"
where Runs>500;


  UPDATE `batting stats overall`
SET `Runs Scored` = "Below 500 runs"
where Runs<500;
```

```sql
-- Finding no. of batsman in top 49 batsman who scored above and below 500 runs

SELECT `Runs Scored`, count(*)
from `batting stats overall`
group by `Runs Scored`;

-- Around 60% of Top 50 batsman has scored above 500 Runs.

-- Find the batsman sorting by average who has scored more than 500 runs:-

SELECT Player, Max(Ave) from `batting stats overall`
where `Runs Scored` = "Above 500 Runs";

-- Virat Kohli(IND) is the top batsman who scored more than 500 runs with highest average.

-- Find the batsman with least average who has scored less than 500 runs:-

SELECT Player, Min(Ave) from `batting stats overall`
where `Runs Scored` = "Below 500 Runs";

-- Umar Akmal (PAK) is the batsman with the least average who has scored less than 500 runs.
```

```sql
SELECT Player, Max(Ave) from `batting stats overall`
where `Runs Scored` = "Above 500 Runs";


-- Virat Kohli(IND) is the top batsman who scored more than 500 runs with highest average.

-- Find the batsman with least average who has scored less than 500 runs:-


SELECT Player, Min(Ave) from `batting stats overall`
where `Runs Scored` = "Below 500 Runs";


-- Umar Akmal (PAK) is the batsman with the least average who has scored less than 500 runs.

-- Find top 3 Players with most number of ducks overall:-


SELECT Player, Ducks from `batting stats overall`
order by Ducks Desc
limit 3;


-- Shahid Afridi (PAK) and TM Dilshan (SL) has the most number of ducks among all batsmans.
```

```sql
1    -- Worldt20bowling stats analysis******
2
3    -- Shakib Al Hasan has taken most no. of wickets and Mohammand Amir has taken least no. of wickets.
4
5    -- Find top 5 list of Bowlers who took 5 wickets in world cup and sort them with respect to their strike rate:-
6 •  SELECT Player, SR, 5s from worldt20bowling
7    where 5s<> 0
8    order by SR asc
9    limit 5;
10
11   -- Adam Zampa has taken 5 wickets once and whose strike rate is minimum.
12
13   -- Find list of top 5 economical bowlers in world t20:-
14 • SELECT Player, Econ from worldt20bowling
15   order By Econ asc
16   limit 5;
17
18   -- Anrich Nortje has been the most economical among all bowlers.
19
20   -- Find list of bottom 5 economical bowlers in world t20
21 • SELECT Player, Econ from worldt20bowling
22   order By Econ desc
23   limit 5;
24
25   -- DJ Bravo has been the most economical overall among all bowlers.
26
```

```sql
-- Divide the table 'worldt20bowling' into 'less than 15 matches' and 'above 15 or equal to 15 matches'

SELECT * FROM worldt20bowling
where `Matches Played` = "Above 15 matches";


SELECT * FROM worldt20bowling
where `Matches Played` = "Less than 15 matches";


-- Find list of top 5 bowlers with least average overall from less than 15 matches played?
SELECT Player,Ave, Overs  from lessthan15worldt20bowling
order by Ave asc
limit 5;


-- Anrich Nortje has the least average overall among players who have played less than 15 matches played


-- Find list of top 5 bowlers with least average overall from more than 15 matches played:-
SELECT Player, Ave, Overs from above15orequalworldt20bowling
order by Ave asc
limit 5;


-- Wannindu Hasranga has the least average overall for more than 15 matches played
```