# DATABASE 2 - QUERIES

**Query 1**:  Getting all batting data of specific batsman

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?playername (SUM(?runs) as ?Runs) (AVG(?sr) as ?StrickRate) (SUM(?4s) as ?Four) (SUM(?6s) as ?Six) (SUM(?bf) as ?ballsfaced) (AVG(?sr) as ?StrikRate)

where {

      ?team t20:Batsman ?batsman ;

          t20:R ?runs;

          t20:SR ?sr;

          t20:4s ?4s;

          t20:6s ?6s;

          t20:BF ?bf;

          t20:SR ?sr;

          t20:Batsman ?playername.

   FILTER REGEX(?batsman ,"Iftikhar Ahmed*"^^xsd:string).

} GROUP BY ?playername

**Query 2**: Players with centuries in T20 Matches

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

select ?player ?runss ?bf ?Fours ?sixes

where {

    ?r t20:R ?runs;

    t20:Batsman ?player;

  t20:R ?runss;
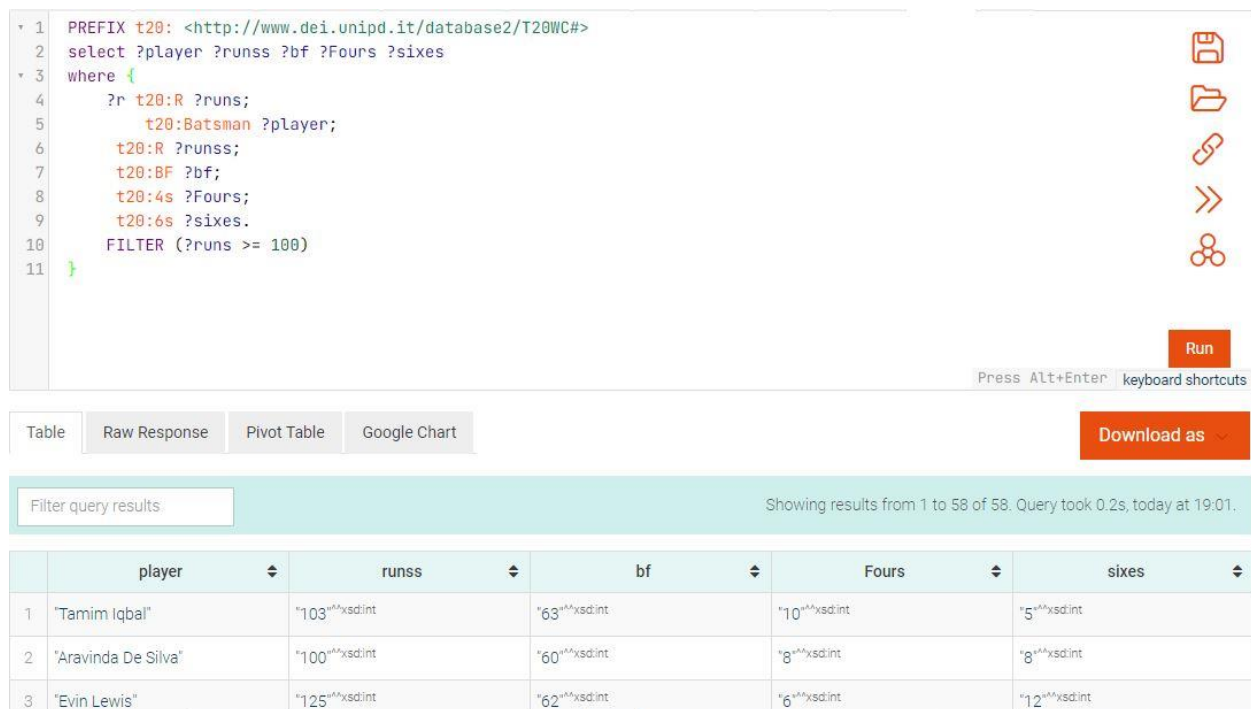
  t20:BF ?bf;

  t20:4s ?Fours;

  t20:6s ?sixes.


  FILTER (?runs >= 100)


}

```
1   PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>
2   select ?player ?runss ?bf ?Fours ?sixes
3   where {
4       ?r t20:R ?runs;
5           t20:Batsman ?player;
6       t20:R ?runss;
7       t20:BF ?bf;
8       t20:4s ?Fours;
9       t20:6s ?sixes.
10      FILTER (?runs >= 100)
11  }
```

Run

Press Alt+Enter  keyboard shortcuts

| Table | Raw Response | Pivot Table | Google Chart | | Download as |

Filter query results      Showing results from 1 to 58 of 58. Query took 0.2s, today at 19:01.

| | player | runss | bf | Fours | sixes |
|---|---|---|---|---|---|
| 1 | "Tamim Iqbal" | "103"^^xsd:int | "63"^^xsd:int | "10"^^xsd:int | "5"^^xsd:int |
| 2 | "Aravinda De Silva" | "100"^^xsd:int | "60"^^xsd:int | "8"^^xsd:int | "8"^^xsd:int |
| 3 | "Evin Lewis" | "125"^^xsd:int | "62"^^xsd:int | "6"^^xsd:int | "12"^^xsd:int |

**Query 3** : Top 5 Bowlers by wickets

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

select ?bowler_name ?Country (SUM(?wic) as ?Wickets)

where {

    ?teams t20:Wickets ?wic;

   t20:Bowler ?bowler_name;

   t20:bowlingTeam ?Country.


}GROUP BY ?bowler_name ?Country

ORDER BY DESC(?Wickets)

LIMIT 5

```
5  PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>
6  select ?bowler_name ?Country (SUM(?wic) as ?Wickets)
7  where { |
8      ?teams t20:Wickets ?wic;
9          t20:Bowler ?bowler_name;
10         t20:bowlingTeam ?Country.
11
12 }GROUP BY ?bowler_name ?Country
13 ORDER BY DESC(?Wickets)
14 LIMIT 5
```

Run
keyboard shortcuts

| Table | Raw Response | Pivot Table | Google Chart | Download as |

Filter query results                Showing results from 1 to 5 of 5. Query took 0.1s, minutes ago.

| | bowler_name | Country | Wickets |
|---|---|---|---|
| 1 | "Shakib Al Hasan" | "Bangladesh" | "122"^^xsd:integer |
| 2 | "Rashid Khan" | "Afghanistan" | "116"^^xsd:integer |
| 3 | "Tim Southee" | "New Zealand" | "114"^^xsd:integer |
| 4 | "Lasith Malinga" | "Sri Lanka" | "107"^^xsd:integer |
| 5 | "Ish Sodhi" | "New Zealand" | "99"^^xsd:integer |

**Query 4**: Batting Score Card of match on specific date

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?mid ?batsman ?Run ?team ?Fours ?Sixes ?Bf ?Sr

where {

    ?Runs t20:Match_Date "17th February, 2005"^^xsd:string ;

                t20:MatchId ?mid.

  ?t t20:Match_Id ?mid;

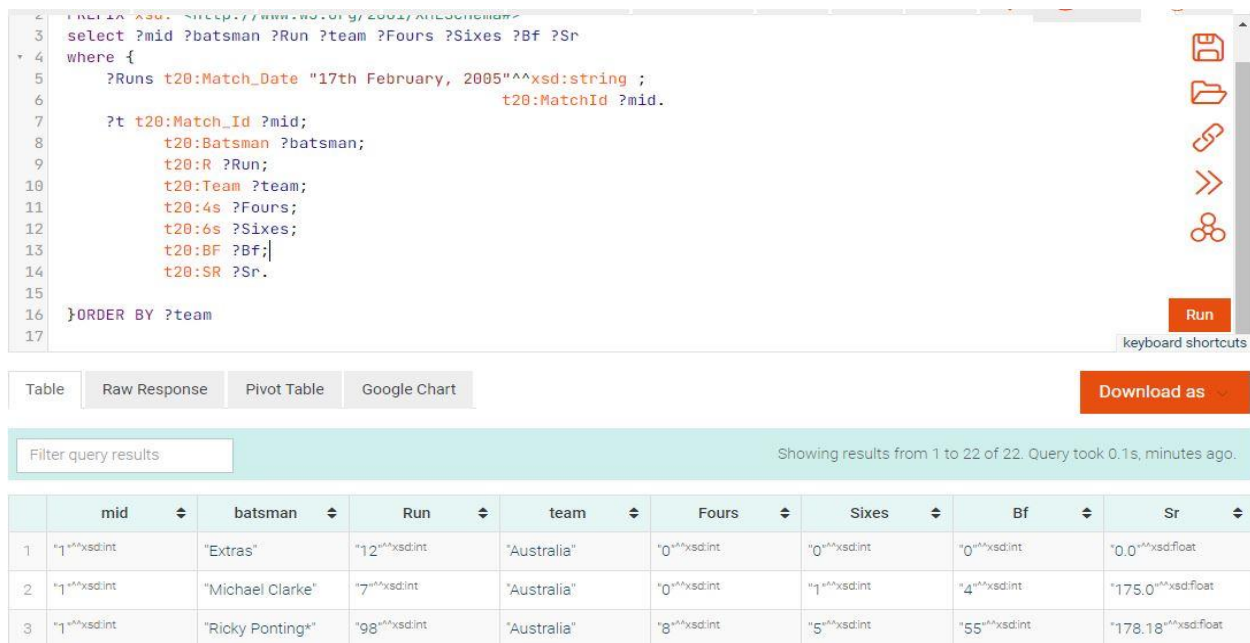    t20:Batsman ?batsman;

    t20:R ?Run;

    t20:Team ?team;

    t20:4s ?Fours;

    t20:6s ?Sixes;

    t20:BF ?Bf;

    t20:SR ?Sr.

}ORDER BY ?team

```
 2    PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
 3    select ?mid ?batsman ?Run ?team ?Fours ?Sixes ?Bf ?Sr
 4    where {
 5        ?Runs t20:Match_Date "17th February, 2005"^^xsd:string ;
 6                                   t20:MatchId ?mid.
 7        ?t t20:Match_Id ?mid;
 8            t20:Batsman ?batsman;
 9            t20:R ?Run;
10            t20:Team ?team;
11            t20:4s ?Fours;
12            t20:6s ?Sixes;
13            t20:BF ?Bf;
14            t20:SR ?Sr.
15
16    }ORDER BY ?team
17
```

Run

keyboard shortcuts

Table | Raw Response | Pivot Table | Google Chart

Download as

Filter query results

Showing results from 1 to 22 of 22. Query took 0.1s, minutes ago.

| | mid | batsman | Run | team | Fours | Sixes | Bf | Sr |
|---|---|---|---|---|---|---|---|---|
| 1 | "1"^^xsd:int | "Extras" | "12"^^xsd:int | "Australia" | "0"^^xsd:int | "0"^^xsd:int | "0"^^xsd:int | "0.0"^^xsd:float |
| 2 | "1"^^xsd:int | "Michael Clarke" | "7"^^xsd:int | "Australia" | "0"^^xsd:int | "1"^^xsd:int | "4"^^xsd:int | "175.0"^^xsd:float |
| 3 | "1"^^xsd:int | "Ricky Ponting*" | "98"^^xsd:int | "Australia" | "8"^^xsd:int | "5"^^xsd:int | "55"^^xsd:int | "178.18"^^xsd:float |

**Query 5**: Bowling Score Card of specific match

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?bowler ?er ?maidens ?runs ?BTeam ?wickets

where {

    ?Runs t20:Match_Date "17th February, 2005"^^xsd:string ;

        t20:MatchId ?mid.

 ?t t20:Match_Id ?mid;

   t20:Bowler ?bowler;

   t20:ER ?er;

   t20:Maidens ?maidens;

   t20:Runs ?runs;

   t20:bowlingTeam ?BTeam;

   t20:Wickets ?wickets;

}ORDER BY ?Bteam

```
 1  PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>
 2  PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
 3  select ?bowler ?er ?maidens ?runs ?BTeam ?wickets
 4  where {
 5      ?Runs t20:Match_Date "17th February, 2005"^^xsd:string ;
 6                          t20:MatchId ?mid.
 7  ?t t20:Match_Id ?mid;
 8          t20:Bowler ?bowler;
 9          t20:ER ?er;
10          t20:Maidens ?maidens;
11          t20:Runs ?runs;
12          t20:bowlingTeam ?BTeam;
13          t20:Wickets ?wickets;
14
15  }ORDER BY ?Bteam
```

Press Alt+Enter to autocomplete

Table | Raw Response | Pivot Table | Google Chart

Download as

Filter query results | Showing results from 1 to 22 of 22. Query took 0.1s, minutes ago.

| | bowler | er | maidens | runs | BTeam | wickets |
|---|---|---|---|---|---|---|
| 1 | "Brett Lee" | "10.33"^^xsd:float | "0"^^xsd:int | "31"^^xsd:int | "Australia" | "0"^^xsd:int |
| 2 | "Kyle Mills" | "11.0"^^xsd:float | "0"^^xsd:int | "44"^^xsd:int | "New Zealand" | "3"^^xsd:int |
| 3 | "Jeffrey Wilson" | "10.75"^^xsd:float | "0"^^xsd:int | "43"^^xsd:int | "New Zealand" | "0"^^xsd:int |
| 4 | "Chris Cairns" | "7.0"^^xsd:float | "0"^^xsd:int | "28"^^xsd:int | "New Zealand" | "1"^^xsd:int |

**Query 6**: Score card of a specific team agaisnt every team

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?opo (SUM(?Runss) as ?Runs) (SUM(?Four) as ?Fours) (SUM(?Sixess) as ?Six) (SUM(?Bfs) as ?BallFaced) (AVG(?Srs) as ?Sr)

where {

        ?team t20:Team "Pakistan"^^xsd:string;

           t20:Opponent ?opo;

           t20:R ?Runss;

  t20:4s ?Four;

  t20:6s ?Sixess;

  t20:BF ?Bfs;

  t20:SR ?Srs;


} GROUP BY(?opo)

```
1   PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>
2   PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
3   select ?opo (SUM(?Runss) as ?Runs) (SUM(?Four) as ?Fours) (SUM(?Sixess) as ?Six) (SUM(?Bfs) as ?BallFaced)
    (AVG(?Srs) as ?Sr)
4   where {
5       ?team t20:Team "Pakistan"^^xsd:string;
6          t20:Opponent ?opo;
7          t20:R ?Runss;
8       t20:4s ?Four;
9       t20:6s ?Sixess;
10      t20:BF ?Bfs;
11      t20:SR ?Srs;
12
13  } GROUP BY(?opo)
14
```

Table   Raw Response   Pivot Table   Google Chart                     Download as

Filter query results                          Showing results from 1 to 19 of 19. Query took 0.1s, minutes ago.

| | opo | Runs | Fours | Six | BallFaced | Sr |
|---|---|---|---|---|---|---|
| 1 | "West Indies" | "2242"^^xsd:integer | "211"^^xsd:integer | "61"^^xsd:integer | "1748"^^xsd:integer | "68.56155"^^xsd:float |
| 2 | "ICC World XI" | "550"^^xsd:integer | "51"^^xsd:integer | "16"^^xsd:integer | "355"^^xsd:integer | "76.514244"^^xsd:float |
| 3 | "Bangladesh" | "2028"^^xsd:integer | "174"^^xsd:integer | "66"^^xsd:integer | "1526"^^xsd:integer | "65.45082"^^xsd:float |
| 4 | "Sri Lanka" | "2846"^^xsd:integer | "224"^^xsd:integer | "70"^^xsd:integer | "2416"^^xsd:integer | "74.77621"^^xsd:float |

**Query 7**: Score card of a specific Batsman against all teams

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?opo (SUM(?Runss) as ?Runs) (SUM(?Four) as ?Fours) (SUM(?Sixess) as ?Six) (SUM(?Bfs) as ?BallFaced) (AVG(?Srs) as ?Sr)

where {

       ?team t20:Batsman ?batsman;

           t20:Opponent ?opo;

           t20:R ?Runss;

  t20:4s ?Four;

  t20:6s ?Sixess;

  t20:BF ?Bfs;

  t20:SR ?Srs;


   FILTER REGEX(?batsman ,"Iftikhar Ahmed*"^^xsd:string).


} GROUP BY(?opo)



| | opo | Runs | Fours | Six | BallFaced | Sr |
|---|---|---|---|---|---|---|
| 1 | "Sri Lanka" | "87"^^xsd:integer | "5"^^xsd:integer | "3"^^xsd:integer | "80"^^xsd:integer | "99.274"^^xsd:float |
| 2 | "Australia" | "121"^^xsd:integer | "12"^^xsd:integer | "3"^^xsd:integer | "85"^^xsd:integer | "125.9925"^^xsd:float |
| 3 | "Bangladesh" | "22"^^xsd:integer | "2"^^xsd:integer | "1"^^xsd:integer | "15"^^xsd:integer | "141.02667"^^xsd:float |
| 4 | "England" | "88"^^xsd:integer | "4"^^xsd:integer | "5"^^xsd:integer | "68"^^xsd:integer | "84.86714"^^xsd:float |
| 5 | "New Zealand" | "14"^^xsd:integer | "1"^^xsd:integer | "1"^^xsd:integer | "7"^^xsd:integer | "200.0"^^xsd:float |
| 6 | "South Africa" | "24"^^xsd:integer | "2"^^xsd:integer | "0"^^xsd:integer | "29"^^xsd:integer | "72.619995"^^xsd:float |
| 7 | "West Indies" | "40"^^xsd:integer | "2"^^xsd:integer | "2"^^xsd:integer | "25"^^xsd:integer | "136.14"^^xsd:float |
| 8 | "India" | "30"^^xsd:integer | "2"^^xsd:integer | "1"^^xsd:integer | "23"^^xsd:integer | "163.635"^^xsd:float |
| 9 | "Hong Kong" | "0"^^xsd:integer | "0"^^xsd:integer | "0"^^xsd:integer | "0"^^xsd:integer | "0.0"^^xsd:float |
| 10 | "Afghanistan" | "30"^^xsd:integer | "2"^^xsd:integer | "0"^^xsd:integer | "33"^^xsd:integer | "90.91"^^xsd:float |

**Query 8**: List of Players with Highest Runs

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?batsman (SUM(?rs) as ?Runs)

   where {

      ?v t20:Player_id ?pid;

   t20:Batsman ?batsman;

   t20:R ?rs.


} GROUP BY (?batsman)

Having (?batsman != "Extras")

ORDER BY DESC(?Runs)

Limit 5

```
  4      where {
  5          ?v t20:Player_id ?pid;
  6          t20:Batsman ?batsman;
  7          t20:R ?rs.
  8
  9  } GROUP BY (?batsman)
 10  Having (?batsman != "Extras")
 11  ORDER BY DESC(?Runs)
 12  Limit 5
 13
 14
```

Run

keyboard shortcuts

Table    Raw Response    Pivot Table    Google Chart

Download as

Filter query results         Showing results from 1 to 5 of 5. Query took 0.2s, moments ago.

| | batsman | Runs |
|---|---|---|
| 1 | "Martin Guptill" | "5765"^^xsd:integer |
| 2 | "David Warner" | "4158"^^xsd:integer |
| 3 | "Rohit Sharma" | "4096"^^xsd:integer |
| 4 | "Virat Kohli" | "3750"^^xsd:integer |
| 5 | "Shoaib Malik" | "3729"^^xsd:integer |

**Query 9**: List of Batsman with Highest Sixes in T20 Career

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

select ?k ?teams (SUM(?s) as ?d)

where {

    ?b t20:Batsman ?k;

        t20:6s ?s;

  t20:Team ?teams


} GROUP BY ?k ?teams

ORDER BY DESC(?d)

LIMIT 10

| | k | teams | d |
|---|---|---|---|
| 1 | "Martin Guptill" | "New Zealand" | "172"^^xsd:integer |
| 2 | "Evin Lewis" | "West Indies" | "110"^^xsd:integer |
| 3 | "Colin Munro" | "New Zealand" | "104"^^xsd:integer |
| 4 | "Rohit Sharma" | "India" | "99"^^xsd:integer |
| 5 | "Glenn Maxwell" | "Australia" | "99"^^xsd:integer |
| 6 | "Chris Gayle" | "West Indies" | "99"^^xsd:integer |
| 7 | "David Warner" | "Australia" | "95"^^xsd:integer |
| 8 | "Eoin Morgan*" | "England" | "85"^^xsd:integer |
| 9 | "Kevin O'Brien" | "Ireland" | "79"^^xsd:integer |
| 10 | "David Miller" | "South Africa" | "78"^^xsd:integer |

**Query 10** ; Profile of a specific Bowler

PREFIX so:<http://www.dei.unipd.it/databse2/T20WC>

PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT ?Player_Name (SUM(?runs) as ?Total_Runs) (SUM(?wi) as ?Total_Wickets) (SUM(?ov) as ?Total_Overs) (SUM(?md) as ?Total_Maiden_Overs) (AVG(?er) as ?ER) {

   ?player t20:Bowler "Umar Gul"^^xsd:string ;

   t20:Bowler ?Player_Name;

   t20:Wickets ?wi;

      t20:Runs ?runs;

      t20:Overs ?ov;

      t20:Maidens ?md;

      t20:ER ?er.

} GROUP BY (?Player_Name)



SPARQL Query & Update

```
2   PREFIX t20: <http://www.dei.unipd.it/database2/T20WC#>
3   PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
4   PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
5   SELECT ?Player_Name (SUM(?runs) as ?Total_Runs) (SUM(?wi) as ?Total_Wickets) (SUM(?ov) as ?Total_Overs) (SUM(?
    md) as ?Total_Maiden_Overs) (AVG(?er) as ?ER) {
6       ?player t20:Bowler "Umar Gul"^^xsd:string ;
7           t20:Bowler ?Player_Name;
8           t20:Wickets ?wi;
9           t20:Runs ?runs;
10          t20:Overs ?ov;
11          t20:Maidens ?md;
12          t20:ER ?er.
13  } GROUP BY (?Player_Name)
14
```

Showing results from 1 to 1 of 1. Query took 0.1s, today at 17:59.

| | Player_Name | Total_Runs | Total_Wickets | Total_Overs | Total_Maiden_Overs | ER |
|---|---|---|---|---|---|---|
| 1 | "Umar Gul" | "1425"^^xsd:integer | "85"^^xsd:integer | "197.00002"^^xsd:float | "2"^^xsd:integer | "7.1647453"^^xsd:float |