**SPARQL QUERIES – INTERNATION T20 CRICKET:**

**Match Winner Query 1:**

SELECT (?battingTeam AS ?1stinningBattingTeam) (SUM(xsd:integer(?runs)) AS ?1stinning) (?bowlingTeam AS ?2ndinningBattingTeam) ?2ndinning2 (IF(?1stinning>?2ndinning2,?battingTeam,?bowlingTeam) AS ?winner)

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

FILTER (CONTAINS(?matchid, '1001\_1'))

{

SELECT (SUM(xsd:integer(?runs2)) AS ?2ndinning)

WHERE{

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs2.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

FILTER (CONTAINS(?matchid, '1001\_2'))

}

}

BIND(?2ndinning AS ?2ndinning2)

}

GROUP BY ?battingTeam ?bowlingTeam ?2ndinning2 ?winner ?1stinning

**Boundary Rate of a given team Sub Query 2:**

SELECT (COUNT(xsd:integer(?runs)) AS ?tballs) ?battingTeam ?tboundaries (?tballs / ?tboundaries AS ?BoundaryRate)

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:runs ?runs2.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

FILTER (?battingTeam = 'Pakistan')

{

SELECT (COUNT(?matchid) AS ?TotalBalls)

WHERE {

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:battingTeam ?battingTeam.

FILTER(?runs = '4' || ?runs = '6')

FILTER(?battingTeam = 'Pakistan')

}

}

BIND(?TotalBalls AS ?tboundaries)

}

GROUP BY ?battingTeam ?tboundaries ?tballs

**Death Overs Query 3 (most wickets in last five overs):**

SELECT (SUM(xsd:integer(?playerOut)) AS ?totalwickets) ?bowlingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

FILTER(xsd:float(?balls)>15)

}

GROUP BY ?bowlingTeam

ORDER BY DESC(?totalwickets)

**Number of matches by each team Query 4:**

SELECT ?battingTeam (COUNT (DISTINCT(?matchid)) AS ?noofmatches)

WHERE {

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:battingTeam ?battingTeam.

}

GROUP BY ?battingTeam

ORDER BY DESC (?noofmatches)

**Most runs in an over by a team Query 5:**

SELECT ?over (SUM(xsd:integer(?runs))AS ?runsinover)

?matchid ?battingTeam ?bowlingTeam

WHERE {

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:battingTeam ?battingTeam.

?row p20T20:balls ?balls.

?row p20T20:bowlingTeam ?bowlingTeam.

BIND(SUBSTR(?balls,-2) AS ?over)

}

GROUP BY ?over ?matchid ?battingTeam ?bowlingTeam

ORDER BY DESC(?runsinover)

**Most wickets in an over Query 6:**

SELECT ?over (SUM(xsd:integer(?playerOut))AS ?wicketsinover)

?matchid ?battingTeam ?bowlingTeam

WHERE {

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:battingTeam ?battingTeam.

?row p20T20:balls ?balls.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:playerOut ?playerOut.

BIND(SUBSTR(?balls,-2) AS ?over)

}

GROUP BY ?over ?matchid ?battingTeam ?bowlingTeam

ORDER BY DESC(?wicketsinover)

**Most Dangerous Team in a power play Query 7:**

SELECT (SUM(xsd:integer(?runs)) AS ?totalruns) ?battingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

FILTER(xsd:float(?balls)<6.1)

}

GROUP BY ?battingTeam

ORDER BY DESC(?totalruns)

**Most wickets in a full match Query 8:**

SELECT (SUM(xsd:integer(?playerOut)) AS ?totalwickets) ?bowlingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

FILTER(xsd:float(?balls)>15)

}

GROUP BY ?bowlingTeam

ORDER BY DESC(?totalwickets)

**Max Runs in each city Query 9:**

SELECT (SUM(xsd:integer(?runs)) AS ?totalruns) ?city

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

}

GROUP BY ?city

ORDER BY DESC (?totalruns)

**Most wickets by a balling team Query 10:**

SELECT (SUM(xsd:integer(?playerOut)) AS ?totalwickets) ?bowlingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

}

GROUP BY ?bowlingTeam

ORDER BY DESC(?totalwickets)

**Most runs by a team Query 11:**

SELECT (SUM(xsd:integer(?runs)) AS ?totalruns) ?battingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

}

GROUP BY ?battingTeam

ORDER BY DESC(?totalruns)

**Most Runs in a venue Query 12:**

SELECT (SUM(xsd:integer(?runs)) AS ?totalruns) ?venue

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

}

GROUP BY ?venue

ORDER BY DESC(?totalruns)

**Total important boundaries by every team Query 13:**

SELECT (COUNT(xsd:integer(?runs)) AS ?TotalBoundaries) ?battingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:runs ?runs2.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

FILTER (?runs='6' || ?runs='4')

}

GROUP BY ?battingTeam

ORDER BY DESC(?TotalBoundaries)

**Most sixes by a team Query 14:**

SELECT (COUNT(xsd:integer(?runs)) AS ?TotalSixes) ?matchid ?battingTeam

WHERE {

?row p20Innings:balls ?balls.

?row p20Innings:tossWinner ?tosswinner.

?row p20Innings:matchId ?matchid.

?row p20Innings:runs ?runs.

?row p20Innings:playerOut ?playerOut.

?row p20Innings:venue ?venue.

?row p20Innings:city ?city.

?row p20Innings:bowlingTeam ?bowlingTeam.

?row p20Innings:battingTeam ?battingTeam.

BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

FILTER (?runs='6')

}

GROUP BY ?matchid ?battingTeam

ORDER BY DESC(?TotalSixes)

**Total balls played by each team in an inning Query 15:**

SELECT (COUNT(?matchid) AS ?TotalBalls) ?battingTeam ?matchid

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:runs ?runs2.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

}

GROUP BY ?matchid ?battingTeam

ORDER BY DESC(?TotalBalls)

**Dot balls faced by each team Query 16:**

SELECT (COUNT(?matchid) AS ?DotBalls) ?battingTeam ?matchid

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:runs ?runs2.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

FILTER(?runs = '0')

}

GROUP BY ?matchid ?battingTeam

ORDER BY DESC(?DotBalls)

**Total balls played by each team Query 17:**

SELECT (COUNT(?matchid) AS ?TotalBalls) ?battingTeam

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:runs ?runs2.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

}

GROUP BY ?battingTeam

ORDER BY DESC(?TotalBalls)

**Finding runs of both teams in a match Query 19:**

SELECT (?battingTeam AS ?1stinningBattingTeam) (SUM(xsd:integer(?runs)) AS ?1stinning) (?bowlingTeam AS ?2ndinningBattingTeam) ?2ndinning2

WHERE {

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

#BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

FILTER (CONTAINS(?matchid, '1000\_1'))

{

SELECT (SUM(xsd:integer(?runs2)) AS ?2ndinning)

WHERE{

?row p20T20:balls ?balls.

?row p20T20:tossWinner ?tosswinner.

?row p20T20:matchId ?matchid.

?row p20T20:runs ?runs2.

?row p20T20:playerOut ?playerOut.

?row p20T20:venue ?venue.

?row p20T20:city ?city.

?row p20T20:bowlingTeam ?bowlingTeam.

?row p20T20:battingTeam ?battingTeam.

#BIND (SUBSTR(?matchid,-1) AS ?Fullmatchid)

FILTER (CONTAINS(?matchid, '1000\_2'))

}

}

BIND(?2ndinning AS ?2ndinning2)

}

GROUP BY ?battingTeam ?bowlingTeam ?2ndinning2