1. Top 5 Players who have scored a century in the most number of matches:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>
SELECT ?player_name (COUNT(DISTINCT ?match) AS ?Centuries)
WHERE {
  ?delivery a cricket:Deliveries ;
        cricket:match ?match ;
        cricket:batsman ?player ;
        cricket:runs ?runs .
  ?player a cricket:Player ;
        cricket:name ?player_name .


  {
   SELECT ?player ?match (SUM(?runs) AS ?totalRuns)
   WHERE {
     ?delivery a cricket:Deliveries ;
            cricket:match ?match ;
            cricket:batsman ?player ;
            cricket:runs ?runs .
   }
   GROUP BY ?player ?match
   HAVING (?totalRuns >= 100)
  }
}
GROUP BY ?player ?player_name
ORDER BY DESC(?Centuries)
LIMIT 5
```

2. Players who have scored the most runs in matches played at a specific venue:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>
SELECT ?player ?playerName ?venue (SUM(?runs) AS ?totalRuns)
WHERE {
  ?delivery a cricket:Deliveries ;
        cricket:batsman ?player ;
        cricket:runs ?runs ;
        cricket:match ?match .
  ?player a cricket:Player ;
        cricket:name ?playerName .
  ?match a cricket:Match ;
        cricket:venue ?venue .
}
GROUP BY ?player ?playerName ?venue
ORDER BY DESC(?totalRuns)
LIMIT 5
```

3. Top 5 Batsmen with respect to their Average Runs Scored:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>

SELECT ?player  (AVG(?totalRuns) AS ?battingAverage)
WHERE {
 ?delivery cricket:batsman ?player .
 ?delivery cricket:runs ?runs .


 {
  SELECT ?player ?match (SUM(?runs) AS ?totalRuns)
  WHERE {
```

```
    ?delivery cricket:batsman ?player .

    ?delivery cricket:runs ?runs .

    ?delivery cricket:match ?match.

  }

  GROUP BY ?player  ?match

 }

}

GROUP BY ?player

ORDER BY DESC(?battingAverage)

LIMIT 5
```

4. Average number of runs scored in a single match in each city:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>

SELECT ?city (AVG(?totalRuns) AS ?averageRuns)

WHERE {

 ?match rdf:type cricket:Match.

 ?match cricket:city ?city.

 ?delivery rdf:type cricket:Deliveries.

 ?delivery cricket:match ?match.

 ?delivery cricket:runs ?runs.

  {

  SELECT  ?city(SUM(?runs) AS ?totalRuns)

  WHERE {

    ?match rdf:type cricket:Match.

    ?match cricket:city ?city.

    ?delivery rdf:type cricket:Deliveries.

    ?delivery cricket:match ?match.

    ?delivery cricket:runs ?runs.
```

```
  }
  GROUP BY ?player  ?match ?city
 }
}
GROUP BY ?city
```

5. Find the player who scored the most runs in a single match:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>

SELECT ?player_name ?match_name (SUM(?runs) AS ?totalRuns)
WHERE {
  ?delivery a cricket:Deliveries ;
        cricket:match ?match ;
        cricket:batsman ?player ;
        cricket:runs ?runs .
         ?player a cricket:Player ;
        cricket:name ?player_name .
   ?match a cricket:Match ;
        cricket:match_name ?match_name ;

}
GROUP BY ?match ?player ?match_name ?player_name
ORDER BY DESC(?totalRuns)
LIMIT 1
```

6. Top 3 Players with Most Player of the Match Awards:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>
```

```
SELECT ?player (COUNT(?match) AS ?awards)
WHERE {
  ?match cricket:player_of_the_match ?player .
}
GROUP BY ?player
ORDER BY DESC(?awards)
LIMIT 3
```

7. Top 3 highest total runs scored by both team in each match:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>

SELECT ?Match (MAX(?totalRuns) AS ?highestTotalRuns)
WHERE {
  ?match cricket:match_name ?Match .
  ?match cricket:first_inning_score ?runs1 .
  ?match cricket:second_inning_score ?runs2 .
  BIND(?runs1 + ?runs2 AS ?totalRuns)
}
GROUP BY ?Match
ORDER BY DESC(?highestTotalRuns)
LIMIT 3
```

8. Top 5 Wicket Takers

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>
SELECT ?bowler (COUNT(?wicket) AS ?wickets)
WHERE {
  ?delivery rdf:type cricket:Deliveries ;
        cricket:bowler ?bowler ;
```

```
          cricket:wicket_type ?wicket .


  FILTER (BOUND(?wicket) && ?wicket in ("caught","bowled","lbw","stumped","caughtandbowled"))
}
GROUP BY ?bowler
ORDER BY DESC(?wickets)
LIMIT 5
```

9. Team with the highest total runs across all matches while batting first:

```
PREFIX cricket: <http://cwnamespace.org/cricketOntology#>
SELECT ?team (SUM(?runs) AS ?totalRuns)
WHERE {
  ?match rdf:type cricket:Match.
  ?match cricket:team1 ?team.
  ?delivery rdf:type cricket:Deliveries.
  ?delivery cricket:match ?match.
  ?delivery cricket:runs ?runs.
}
GROUP BY ?team
ORDER BY DESC(?totalRuns)
LIMIT 1
```

10. Query for Matches and Their Umpires:

```
SELECT ?match ?matchName ?umpire1 ?umpire2
WHERE {
  ?match a cricket:Match .
  ?match cricket:match_name ?matchName .
  ?match cricket:umpire1 ?umpire1 .
```

```
    ?match cricket:umpire2 ?umpire2 .

}
```