1. Create a rollup operation on profits earned by each team.

mysql> select team.tname ,sum(played\_fact.award) as teamProfit from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key group by team.tname with rollup;

mysql>

+------------+------------+

| tname | teamProfit |

+------------+------------+

| barca | 500 |

| chelsea | 500 |

| england | 3000 |

| India | 56000 |

| juventus | 100 |

| lakers | 100 |

| madrid | 0 |

| manu | 500 |

| newzealand | 1000 |

| warriors | 0 |

| NULL | 61700 |

+------------+------------+

11 rows in set (0.00 sec)

2. Create a rollup operation on profits earned by each team with respective to matched played.

mysql> select team.tname ,sum(played\_fact.award) as teamProfit, count(played\_fact.tid) as noofmatches from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key group by team.tname with rollup;

mysql>+------------+------------+-------------+

| tname | teamProfit | noofmatches |

+------------+------------+-------------+

| barca | 500 | 1 |

| chelsea | 500 | 1 |

| england | 3000 | 11 |

| India | 56000 | 16 |

| juventus | 100 | 11 |

| lakers | 100 | 1 |

| madrid | 0 | 11 |

| manu | 500 | 1 |

| newzealand | 1000 | 2 |

| warriors | 0 | 1 |

| NULL | 61700 | 56 |

+------------+------------+-------------+

11 rows in set (0.01 sec)

3. Create a rollup and slice operation on profits earned by each team with respective to matched played in the year of “2015”.

mysql> select team.tname ,sum(played\_fact.award) as teamProfit, count(played\_fact.tid) as noofmatches from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and time.year="2015" group by team.tname with rollup;

+------------+------------+-------------+

| tname | teamProfit | noofmatches |

+------------+------------+-------------+

| barca | 500 | 1 |

| chelsea | 500 | 1 |

| england | 2000 | 7 |

| India | 6000 | 12 |

| juventus | 0 | 6 |

| lakers | 100 | 1 |

| madrid | 0 | 6 |

| manu | 500 | 1 |

| newzealand | 1000 | 2 |

| warriors | 0 | 1 |

| NULL | 10600 | 38 |

+------------+------------+-------------+

11 rows in set (0.00 sec)

4. Create slice operation to get numbers of team played in respective to matched played on wednesday.

mysql> select count(played\_fact.tid) from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key

-> and time.day="wednesday";

+------------------------+

| count(played\_fact.tid) |

+------------------------+

| 3 |

+------------------------+

1 row in set (0.00 sec)

5. Create slice operation to get teams played in respective to matched played on wednesday.

mysql> select team.tname from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and time.day="wednesday";

+-------+

| tname |

+-------+

| India |

| manu |

| manu |

+-------+

3 rows in set (0.00 sec)

6. Create slice operation to get numbers of team played in respective to matched played in the year 2015.

mysql> select count(played\_fact.tid) from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and team.tname= "India" and time.year="2015";

+------------------------+

| count(played\_fact.tid) |

+------------------------+

| 16 |

+------------------------+

1 row in set (0.01 sec)

7. Create slice operation to get numbers of team played in respective to matched played in the year 2015 and have won.

mysql> select count(played\_fact.tid) from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and team.tname= "India" and time.year="2015"and played\_fact.Result="won";

+------------------------+

| count(played\_fact.tid) |

+------------------------+

| 5 |

+------------------------+

1 row in set (0.01 sec)

8. Create slice operation to get teams played in respective to matched played in the year 2015 and won .

mysql> select distinct team.tname from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and time.year="2015"and played\_fact.Result="won";

+------------+

| tname |

+------------+

| madrid |

| India |

| manu |

| juventus |

| barca |

| chelsea |

| newzealand |

+------------+

7 rows in set (0.00 sec)

9. Create slice operation to get teams played in respective to matched played in the year 2015 and lost.

mysql> select distinct team.tname from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and time.year="2015"and played\_fact.Result="lost";

+------------+

| tname |

+------------+

| madrid |

| India |

| manu |

| juventus |

| barca |

| chelsea |

| newzealand |

+------------+

7 rows in set (0.01 sec)

10. Create slice operation to get numbers of matches played in Mumbai.

mysql> select count(played\_fact.tid) as noofmatches from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and matches.location="mumbai";

+-------------+

| noofmatches |

+-------------+

| 6 |

+-------------+

1 row in set (0.01 sec)

11. Dice to get the matches played by teams “India” and “Madrid” and in “Mumbai” and “Bangalore” and on “wednesday” and “Friday”.

mysql> select count(played\_fact.tid) as no\_of\_matches from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and team.tname in ("India","madrid") and matches.location in ("mumbai","banglore") and time.day in ("wednesday","friday");

+---------------+

| no\_of\_matches |

+---------------+

| 4 |

+---------------+

1 row in set (0.00 sec)

12. Dice to get data about matches played by teams “India” and “Madrid” and in “Mumbai” and “Bangalore” and in years 2015 and 2016.

mysql> select team.tname,time.year,matches.location from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and team.tname in ("India","madrid") and matches.location in ("mumbai","banglore") and time.year in ("2015", "2016");

+--------+------+----------+

| tname | year | location |

+--------+------+----------+

| madrid | 2015 | mumbai |

| madrid | 2015 | banglore |

| madrid | 2015 | banglore |

| madrid | 2015 | banglore |

| madrid | 2015 | banglore |

| madrid | 2015 | banglore |

| madrid | 2016 | banglore |

| India | 2015 | mumbai |

| India | 2015 | mumbai |

| India | 2015 | banglore |

| India | 2015 | banglore |

| India | 2015 | banglore |

| India | 2015 | banglore |

+--------+------+----------+

13 rows in set (0.01 sec)

12. Dice to get data about sports played by teams “India” and “Madrid” and in “Mumbai” and “Bangalore” and in years 2015 and 2016.

mysql> select sport.sname from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and team.tname in ("India","madrid") and matches.location in ("mumbai","banglore") and time.year in ("2015", "2016");

+------------+

| sname |

+------------+

| cricket |

| cricket |

| cricket |

| cricket |

| cricket |

| cricket |

| cricket |

| cricket |

| cricket |

| hockey |

| hockey |

| basketball |

| basketball |

+------------+

13 rows in set (0.00 sec)

13. Dice to get team details played Cricket and hockey and in “Mumbai” and “Bangalore” and in years 2015 and 2016.

mysql> select team.\* from played\_fact, matches, sport, team, time where team.tid=played\_fact.tid and sport.sid=played\_fact.sid and matches.mid=played\_fact.mid and played\_fact.time\_key=time.time\_key and sport.sname in ("hockey","cricket") and matches.location in ("mumbai","banglore") and time.year in ("2015", "2016");

+-----+----------+-------+---------+

| tid | tname | nomem | manager |

+-----+----------+-------+---------+

| 2 | India | 30 | bbc |

| 8 | england | 20 | bcc |

| 1 | madrid | 30 | solari |

| 3 | juventus | 30 | pept |

| 2 | India | 30 | bbc |

| 2 | India | 30 | bbc |

| 2 | India | 30 | bbc |

| 1 | madrid | 30 | solari |

| 1 | madrid | 30 | solari |

| 1 | madrid | 30 | solari |

| 1 | madrid | 30 | solari |

| 1 | madrid | 30 | solari |

| 1 | madrid | 30 | solari |

+-----+----------+-------+---------+

13 rows in set (0.00 sec)