

NELL Queries

S1. The query reports on the sport athletes in teams play.

```
SELECT distinct a.entity as athlete, b.value as sport
FROM NELL as a, NELL as b
WHERE a.relation = 'athleteplaysforteam'
      and b.relation = 'teampplayssport'
      and a.value = b.entity
```

Sample output

athlete	sport
adam_dunn	baseball

S3. The query reports on equipment used in sports by teams with athletes in this teams.

```
SELECT distinct b.entity as team, c.entity as equipment
FROM NELL as a, NELL as b, NELL as c
WHERE a.relation = 'athleteplaysforteam'
      and b.relation = 'teampplayssport'
      and c.relation = 'equipmentusedbysport'
      and a.value = b.entity
      and b.value = c.value
```

Sample output

team	equipment
arizona	balls

MS4. The query reports what are the teams, sport and league an athlete play in.

```
SELECT distinct a.value as team, b.value as sport, c.value as league
FROM NELL as a, NELL as b, NELL as c
WHERE a.relation = 'athleteplaysforteam'
      and b.relation = 'athleteplayssport'
      and c.relation = 'athleteplaysinleague'
      and a.entity = b.entity
      and a.entity=c.entity
```

Sample output

team	sport	league
boston_celtics	basketball	nba

S2. The query report on which sector economic company acquired another sector of economic company.

```
SELECT distinct a.value as a_sector, b.value as b_sector
FROM NELL as a, NELL as b, NELL as c
WHERE a.relation = 'companyeconomicsector'
      and b.relation = 'companyeconomicsector'
      and a.entity = c.entity
      and b.entity = c.value
      and c.relation = 'acquired'
```

Sample output

a_sector	b_sector
advertising	entertainment

MS1. The query reports what are the teams, sport and league an athlete play in, and defined as sport or hobby.

```
SELECT distinct a.value as team, b.value as sport, c.value as league
FROM NELL as a, NELL as b, NELL as c, NELL as d
WHERE a.relation = 'athleteplaysforteam'
      and b.relation = 'athleteplayssport'
      and c.relation = 'athleteplaysinleague'
      and a.entity = b.entity
      and a.entity=c.entity
      and d.entity = b.value
      and d.relation = 'generalizations'
      and (d.value LIKE '%sport%' or d.value LIKE '%hobby%')
```

Sample output

team	sport	league
boston_dodgers	baseball	mlb

MS3. The query reports on teams in sport fields with equipment and the sport definition.

```
SELECT distinct b.entity as team, c.entity as equipment, d.value as general_def
FROM NELL as a, NELL as b, NELL as c, NELL as d
WHERE a.relation = 'athleteplaysforteam'
      and b.relation = 'teamplayssport'
      and c.relation = 'equipmentusedbysport'
      and a.value = b.entity
      and b.value = c.value
      and d.entity = c.entity
      and d.relation = 'generalizations'
```

Sample output

team	equipment	general
bears	football	hobby

S4. The query reports on athletes who plays sport in a team and the definition of the team is team.

```
SELECT distinct a.entity as athlete, b.value as sport
FROM NELL as a, NELL as b, NELL as c
WHERE a.relation = 'athleteplaysforteam'
      and b.relation = 'teampayssport'
      and a.value = b.entity
      and c.entity = a.value
      and c.relation = 'generalizations'
      and c.value like '%team%'
```

Sample output

athlete	sport
matt_ryan	football

MS4. The query reports on sectors of economic companies which the first company acquired the second company and the sector definition is type of "sector" or "field"

```
SELECT distinct a.value as a_sector, b.value as b_sector
FROM NELL as a, NELL as b, NELL as c, NELL as d
WHERE a.relation = 'companyeconomicsector'
      and b.relation = 'companyeconomicsector'
      and a.entity = c.entity
      and b.entity = c.value
      and c.relation = 'acquired'
      and d.entity = a.value
      and d.relation = 'generalizations'
      and (d.value like '%sector' or d.value like '%field%')
```

Sample output

a_sector	b_sector
banking	insurance