

1)

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie.dat;
```

```
aggregation:aggregate[COUNT:movie.release_year](filter[ ( movie.release_year > '2000' )](movie<130,220><80,150><60,80>;
```

2)

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\person.dat;
```

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie_cast.dat;
```

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie.dat;
```

```
aggregation:aggregate[AVG:movie.release_year](filter[ ( person.person_name == 'Bruce Willis' )](join[movie_cast.movie_id=movie.movie_id](join[movie_cast.person_id=person.person_id](movie_cast<350,330>,person<510,330><360,260>,movie<660,270><490,190><480,120><490,60>;
```

3)

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie.dat;
```

```
filter[ ( aggregate.COUNT_release_year >= 5 )](hashGroup:aggregate[movie.release_year, COUNT:movie.release_year](movie<960,260><820,180><870,100>;
```

4)

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie_cast.dat;
```

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie.dat;
```

```
projection[movie.title, movie_cast.character_name](filter[ ( movie.release_year ==  
2007  
)](leftOuterJoin[movie.movie_id=movie_cast.movie_id](movie<90,620>,movie_cast<26  
0,620>)<120,550>)<140,490>)<120,430>;
```

5)

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie_cast.dat;
```

```
import C:\Users\rdieg\PROGRAMACAO\UFSM_Database\Implementation\03-18-25\movie.dat;
```

```
projection[movie.title](antiJoin[movie.movie_id=movie_cast.movie_id](movie<610,610  
>,movie_cast<780,610>)<630,540>)<700,470>;
```