

PIG

```
ratings = LOAD '/user/maria_dev/ml-100k/u.data' AS (userID:int, movieID:int, rating:int,  
ratingTime:int);
```

```
metadata = LOAD '/user/maria_dev/ml-100k/u.item' USING PigStorage('|')
```

```
AS (movieID:int, movieTitle:chararray, releaseDate:chararray, videoRealese:chararray,  
imdblink:chararray);
```

```
nameLookup = FOREACH metadata GENERATE movieID, movieTitle,
```

```
ToUnixTime(ToDate(releaseDate, 'dd-MMM-yyyy')) AS releaseTime;
```

```
ratingsByMovie = GROUP ratings BY movieID;
```

```
avgRatings = FOREACH ratingsByMovie GENERATE group as movieID, AVG(ratings.rating) as  
avgRating;
```

```
fiveStarMovies = FILTER avgRatings BY avgRating < 2.0;
```

```
fiveStarsWithData = JOIN fiveStarMovies BY movieID, nameLookup BY movieID;
```

```
oldestFiveStarMovies = ORDER fiveStarsWithData BY nameLookup::releaseTime;
```

```
DUMP oldestFiveStarMovies;
```