Sarah Mathes

CS 351, Assignment 5

Write-Up

This database, ‘movies’, is in second normal form. The tables and their attributes are as follows:

|  |  |
| --- | --- |
| **movies** | |
|  | budget |
|  | homepage |
|  | keywords |
| PK | id |
|  | original\_language |
|  | original\_title |
|  | overview |
|  | popularity |
|  | release\_date |
|  | runtime |
|  | revenue |
|  | status |
|  | tagline |
|  | title |
|  | vote\_average |
|  | vote\_count |

|  |  |
| --- | --- |
| **genres** | |
| PK | id |
|  | name |

|  |  |
| --- | --- |
| **movie\_genres** | |
| PK | id |
| FK | movieid |
| FK | genreid |

|  |  |
| --- | --- |
| **production\_companies** | |
| PK | id |
|  | name |

|  |  |
| --- | --- |
| **movie\_production\_company** | |
| PK | id |
| FK | movieid |
| FK | producerid |

|  |  |
| --- | --- |
| **keywords** | |
| PK | id |
|  | name |

|  |  |
| --- | --- |
| **movie\_keywords** | |
| PK | id |
| FK | movieid |
| FK | keywordid |

|  |  |
| --- | --- |
| **production\_companies** | |
| PK | iso\_3166\_1 |
|  | name |

|  |  |
| --- | --- |
| **movie\_production\_country** | |
| PK | id |
| FK | movieid |
| FK | iso\_3166\_1 |

|  |  |
| --- | --- |
| **spoken\_languages** | |
| PK | iso\_639\_1 |
|  | name |

|  |  |
| --- | --- |
| **movie\_spoken\_languages** | |
| PK | id |
| FK | movieid |
| FK | iso\_639\_1 |

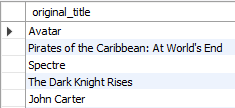
**Question 1**

SELECT AVG(budget) FROM movies.movies;



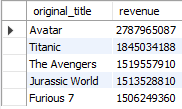
**Question 2**

SELECT original\_title FROM movies.movies INNER JOIN movies.movie\_production\_country ON movies.movie\_production\_country.movieid = movies.movies.id WHERE movies.movie\_production\_country.iso\_3166\_1 = 'US';



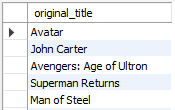
**Question 3**

SELECT original\_title, revenue FROM movies.movies ORDER BY movies.movies.revenue DESC LIMIT 5;



**Question 4**

SELECT original\_title FROM movies.movies INNER JOIN movies.genres ON movies.movie\_genre.genreid = movies.genres.id INNER JOIN movies.movie\_genre ON movies.movie\_genre.movieid = movies.movies.id WHERE movies.genres.name = 'Science Fiction' AND movies.genres.name = 'Mystery';



**Question 5**

SELECT original\_title, popularity FROM movies.movies WHERE popularity > (SELECT AVG(popularity) FROM movies.movies);

