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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;
```

	AVG(budget)
▶	29060068.0248

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';
```

	original_title
▶	Avatar
	Pirates of the Caribbean: At World's End
	Spectre
	The Dark Knight Rises
	John Carter

Question 3

```
SELECT original_title, revenue FROM movies.movies ORDER BY movies.movies.revenue DESC  
LIMIT 5;
```

	original_title	revenue
▶	Avatar	2787965087
	Titanic	1845034188
	The Avengers	1519557910
	Jurassic World	1513528810
	Furious 7	1506249360

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';
```

	original_title
▶	Avatar
	John Carter
	Avengers: Age of Ultron
	Superman Returns
	Man of Steel

Question 5

SELECT original_title, popularity FROM movies.movies WHERE popularity > (SELECT AVG(popularity) FROM movies.movies);

	original_title	popularity
►	Four Rooms	23
	Star Wars	126
	Finding Nemo	86
	Forrest Gump	138
	American Beauty	81