

BASE <http://example.com/movie/>
prefix xs: <http://www.w3.org/2001/XMLSchema#>

#-----
#Q1 (1 mark): countries that have created at least 5 movies, where the average IMDB score of the movies created in that country is at least 7.5.

```
#select ?country {  
#  ?movie <country> ?country ; <imdb_score> ?imdb .  
#} group by ?country having (avg(xs:float(?imdb)) >= 7.5 && count(?imdb) >=5)
```

#-----
#Q2 (1 mark): names of the movies (except horror movies) and their corresponding IMDB scores, where the score is at least 8.5 based on a minimum of 1,500,000 votes.

```
#select ?name ?imdb {  
#  ?movie <Name> ?name .  
#  ?movie <imdb_score> ?imdb filter (xs:float(?imdb)>=8.5) .  
#  ?movie <num_voted_users> ?vote filter (xs:float(?vote)>=1500000) .  
#  filter not exists {?movie <Name> ?name {genres} ?genre filter regex(?genre,"horror","i")} .  
#}  
#-----
```

#Q3 (1 mark): Name, title_year, and imdb_score of the movies with actor “Brad Pitt”. Also include the movie_imdb_link of those movies if they belong to “Family” or “Drama” genres AND have imdb_score of at least 8.

```
#select ?name ?year ?imdb ?imdb_link {  
#  ?movie <Name> ?name ; <imdb_score> ?imdb ; <title_year> ?year .  
#  {{?movie <actor_1_name> ?actor_1_name filter (?actor_1_name="Brad Pitt")} union  
#    {?movie <actor_2_name> ?actor_2_name filter (?actor_2_name="Brad Pitt")} union  
#    {?movie <actor_3_name> ?actor_3_name filter (?actor_3_name="Brad Pitt")}} .  
#  optional  
#  {  
#    ?movie <genres> ?genre filter regex(?genre,"Family|Drama") .  
#    ?movie <imdb_score> ?imdb filter (xs:float(?imdb)>=8) .  
#    ?movie <movie_imdb_link> ?imdb_link .  
#  }  
#}
```

#-----
#Q4 (1.5 marks): The Name, country, imdb_score, and budget of the top 10 most expensive color movies with imdb_score of at least 7. Sort the results based on budget and then imdb-score.

```
#select ?name ?country ?budget ?imdb where {  
#  ?movie <Name> ?name .  
#  ?movie <imdb_score> ?imdb filter (xs:float(?imdb)>=7).  
#  ?movie <budget> ?budget .  
#  ?movie <country> ?country.  
#  ?movie <color> ?color filter (?color="Color").  
#} order by desc(xs:float(?budget)) (?imdb) limit 10
```

#-----
#Q5 (1.5 marks): the most expensive “Animation” movie created from 2016 to 2020 with imdb_score less than the average imdb_score of all movies of all times is created in the USA or the UK. (hint: the query must return Yes or No only).

```
#ask {  
#  {  
#    select * {  
#      ?movie <country> ?country.  
#      ?movie <Name> ?name .  
#      ?movie <genres> ?genre filter regex(?genre,"Animation","i").  
#      ?movie <title_year> ?year filter (xs:float(?year)=2020 && xs:float(?year)>=2016).  
#      ?movie <imdb_score> ?imdb filter (xs:float(?imdb)<?imdb_av).  
#      ?movie <budget> ?budget .  
#      {  
#        select (avg(xs:float(?imdb)) as ?imdb_av){  
#          ?movie <imdb_score> ?imdb .  
#        }  
#      }  
#    } orderby desc(xs:float(?budget)) limit 1  
#  } filter (?country="UK" || ?country="USA")  
#}  
#  
#-----
```

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#Q6 (1 mark): Name, title_year, and imdb_score of the movies with actor “Brad Pitt”, which are created after 2015 or have an IMDB score of at least 8.

```
#select ?name ?year ?imdb {  
#    ?movie <Name> ?name ; <title_year> ?year; <imdb_score> ?imdb filter(xs:float(?year)>= 2015 || xs:float(?imdb)>=8)  
#    {{?movie <actor_1_name> ?actor_1_name filter (?actor_1_name="Brad Pitt"}} union  
#    {?movie <actor_2_name> ?actor_2_name filter (?actor_2_name="Brad Pitt"}} union  
#    {?movie <actor_3_name> ?actor_3_name filter (?actor_3_name="Brad Pitt"}}}  
#}  
##-----
```

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