Name: Manish Kumar

Enrollment: 231040012008

**Answer 1:** **σ year>2000 movies**

Table:

"movies.id","movies.name","movies.year","movies.rank"

10934,Aliens of the Deep,2005,6.5

"96779","Earthship.TV","2001","5.6"

"105938","Expedition: Bismarck","2002","7.5"

"127297","Ghosts of the Abyss","2003","6.7"

"159665","Inglorious Bastards","2006","8.3"

"176711","Kill Bill: Vol. 1","2003","8.4"

"176712","Kill Bill: Vol. 2","2004","8.2"

"393538","Jimmy Kimmel Live!","2003","6.7"

**Answer 2:** **σ year>2000 and rank>6 movies**

Table:

"movies.id","movies.name","movies.year","movies.rank"

"10934","Aliens of the Deep","2005","6.5"

"105938","Expedition: Bismarck","2002","7.5"

"127297","Ghosts of the Abyss","2003","6.7"

"159665","Inglorious Bastards","2006","8.3"

"176711","Kill Bill: Vol. 1","2003","8.4"

"176712","Kill Bill: Vol. 2","2004","8.2"

"393538","Jimmy Kimmel Live!","2003","6.7"

**Answer 3:** **i) π year, name, rank σ year>2000**

**ii) π year, name,rankσyear>2000 movies and rank>6 movies**

Table i:

"movies.year","movies.name","movies.rank"

"2005","Aliens of the Deep","6.5"

"2001","Earthship.TV","5.6"

"2002","Expedition: Bismarck","7.5"

"2003","Ghosts of the Abyss","6.7"

"2006","Inglorious Bastards","8.3"

"2003","Kill Bill: Vol. 1","8.4"

"2004","Kill Bill: Vol. 2","8.2"

"2003","Jimmy Kimmel Live!","6.7"

Table ii:

"movies.year","movies.name","movies.rank"

"2005","Aliens of the Deep","6.5"

"2002","Expedition: Bismarck","7.5"

"2003","Ghosts of the Abyss","6.7"

"2006","Inglorious Bastards","8.3"

"2003","Kill Bill: Vol. 1","8.4"

"2004","Kill Bill: Vol. 2","8.2"

"2003","Jimmy Kimmel Live!","6.7"

**Answer 4:** **π movies.name, movies.year, movies.rank, movies_genres.genre σ year > 2000 and rank > 6 ( movies  movies.id = movies_genres.movie_id movies_genres )**

Table:

"movies.name","movies.year","movies.rank","movies_genres.genre"

"Aliens of the Deep","2005","6.5","Documentary"

"Expedition: Bismarck","2002","7.5","Documentary"

"Ghosts of the Abyss","2003","6.7","Documentary"

"Ghosts of the Abyss","2003","6.7","Family"

"Ghosts of the Abyss","2003","6.7","Short"

"Inglorious Bastards","2006","8.3","Action"

"Inglorious Bastards","2006","8.3","Drama"

"Inglorious Bastards","2006","8.3","War"

"Kill Bill: Vol. 1","2003","8.4","Action"

"Kill Bill: Vol. 1","2003","8.4","Crime"

"Kill Bill: Vol. 1","2003","8.4","Thriller"

"Kill Bill: Vol. 2","2004","8.2","Action"

"Kill Bill: Vol. 2","2004","8.2","Drama"

"Kill Bill: Vol. 2","2004","8.2","Romance"

"Kill Bill: Vol. 2","2004","8.2","Thriller"

**Answer 5: π movies.name, movies.year, movies.rank, directors.first_name, directors.last_name, movies_genres.genre σ movies.year > 2000 and movies.rank > 6 ( ( ( movies movies.id = movies_genres.movie_id movies_genres ) movies.id = movies_directors.movie_id movies_directors ) movies_directors.director_id = directors.id directors )**

Table:

"movies.name","movies.year","movies.rank","movies_genres.genre","directors.first_name","directors.last_name"

"Aliens of the Deep","2005","6.5","Documentary","James (I)","Cameron"

"Expedition: Bismarck","2002","7.5","Documentary","James (I)","Cameron"

"Ghosts of the Abyss","2003","6.7","Documentary","James (I)","Cameron"

"Ghosts of the Abyss","2003","6.7","Family","James (I)","Cameron"

"Ghosts of the Abyss","2003","6.7","Short","James (I)","Cameron"

"Inglorious Bastards","2006","8.3","Action","Quentin","Tarantino"

"Inglorious Bastards","2006","8.3","Drama","Quentin","Tarantino"

"Inglorious Bastards","2006","8.3","War","Quentin","Tarantino"

"Kill Bill: Vol. 1","2003","8.4","Action","Quentin","Tarantino"

"Kill Bill: Vol. 1","2003","8.4","Crime","Quentin","Tarantino"

"Kill Bill: Vol. 1","2003","8.4","Thriller","Quentin","Tarantino"

"Kill Bill: Vol. 2","2004","8.2","Action","Quentin","Tarantino"

"Kill Bill: Vol. 2","2004","8.2","Drama","Quentin","Tarantino"

"Kill Bill: Vol. 2","2004","8.2","Romance","Quentin","Tarantino"

"Kill Bill: Vol. 2","2004","8.2","Thriller","Quentin","Tarantino"

**Answer 6:** **π actors.id,actors.first_name,actors.last_name ((roles ⋈ roles.movie_id = movies_genres.movie_id movies_genres) ⋈ roles.actor_id actors.id actors) - π actors.id,actors.first_name,actors.last_name (σ movies_genres.genre = 'Action'(roles ⋈ roles.movie_id = movies_genres.movie_id movies_genres) ⋈ roles.actor_id = actors.id actors)**

Table:(Total 740 rows)

"actors.id","actors.first_name","actors.last_name"

"69940","James (I)","Cameron"

"128257","Richard","Doyle"

"137802","Bob","Elkins"

"185164","Fred","Griffith"

"232844","Dean (VII)","Jones"

"259373","Karl (II)","Kuhn"

"285456","Curt","Lowens"

“428322","Ty","Sears"

**Answer 7: π actors.first_name, actors.last_name ( actors actors.first_name = directors.first_name and actors.last_name = directors.last_name directors )**

Table:

"actors.first_name","actors.last_name"

"James (I)","Cameron"

"Stanley","Kubrick"

"Quentin","Tarantino"

**Answer 8: π actors.first_name, actors.last_name ( actors actors.first_name = directors.first_name and actors.last_name = directors.last_name directors )**

Table:

"directors.first_name","directors.last_name"

"James (I)","Cameron"

"Stanley","Kubrick"

"Quentin","Tarantino"

**Answer 9: π actors.first_name, actors.last_name σ role = 'Doctor' ( actors actors.id = roles.actor_id roles )**

Table:

"actors.first_name","actors.last_name"

"Blain","Fairman"

"Craig (I)","Hunter"

"Halder","Hanson"

"Anne","Jackson"