

خروجی نهایی کویری ها

۱) فقط همه فیلم هایی که در سال ۲۰۱۸ ساخته شده اند را نمایش بده.

The screenshot shows the SQL Server Management Studio interface. On the left, the Object Explorer pane displays a tree view of the database structure for 'SQL Server 16.0.1000.6 - DESKTOP-6GTP5R6.DELL'. The 'Tables' node under 'PersianMovieDB' is expanded, showing tables like 'Movie', 'Genre', and 'Actor'. On the right, a query window titled 'SQLQuery15... (DELL (68))' contains the following T-SQL code:

```
1 SELECT MovieID, PERSIAN_title , EN_title, Score ,Year ,Time
2 FROM Movie
3 WHERE Year = 2018
4 ORDER BY Score DESC;
```

The results grid below shows the output of the query, with 133 rows found. The columns are: MovieID, PERSIAN_title, EN_title, Score, Year, and Time. The data includes movies like 'Top Gear' (MovieID 98), 'Chubby and I' (MovieID 60), and 'Life Again' (MovieID 33). The 'Score' column ranges from 6.9 to 8.7.

۲) میخوام برای هر زانر فیلمی که بیشترین امتیاز IMDB را دارد ببینم.

```
SQLQuery1.s...6\DELL (68)* ↵ ×
1   SELECT
2     g.GenreName, m.PERSIAN_title, m.EN_title, m.Score
3   FROM Movie m
4   JOIN MovieGenres mg ON m.MovieID = mg.MovieID
5   JOIN Genres g ON mg.GenreID = g.GenreID
6   WHERE m.Score = (
7     SELECT
8       Score
9     FROM m column Score(decimal, null)
10    JOIN MovieGenres mg2 ON m2.MovieID = mg2.MovieID
11    WHERE mg2.GenreID = g.GenreID
12  );
133 % ↵ No issues found
Results Messages


|    | GenreName | PERSIAN_title             | EN_title                        | Score |
|----|-----------|---------------------------|---------------------------------|-------|
| 8  | Action    | آخرین بار کی سفر را بیدار | When Did You Last See Sahar?    | 7.6   |
| 9  | War       | پیش و پس از نبر           | The 23                          | 6.6   |
| 10 | Romance   | غفار لتوی چاهش            | Looti Hashem's Passage          | 8.0   |
| 11 | Comedy    | نکاح کفایز                | Top Gear                        | 8.7   |
| 12 | Drama     | سال دوم دانشکده من        | My Second Year at Uni           | 9.0   |
| 13 | Drama     | لعنتی خنده دار            | Damn Funny                      | 9.0   |
| 14 | Drama     | جزیره رنگی                | The Rainbow Island              | 9.0   |
| 15 | Drama     | به ندای امن               | Being Born                      | 9.0   |
| 16 | Drama     | پشت دیوار سکوت            | Behind The Wall of Silence      | 8.0   |
| 17 | Drama     | پیونکو، گوگ سردار و روسی  | Pinocchio, Uncle Sardar and ... | 8.0   |
| 18 | Drama     | کفروه آنها                | Alma Group                      | 8.0   |


```

The screenshot shows the SQL Server Management Studio interface. In the Object Explorer on the left, a connection to 'SQL Server 16.0.1000.6 - DESKTOP-6GTP5R6(DELL)' is selected. The 'Databases' node is expanded, showing 'System Databases', 'AdventureWorks2022', 'DB11', 'FirstDB', and 'PermitMovieDB'. 'PermitMovieDB' has its 'Tables' node expanded, listing 'System Tables', 'FileTables', 'External Tables', 'Graph Tables', 'dbo.Genres', 'dbo.Movie', 'dbo.MovieGenres', and 'Dropped Ledger Tables'. The 'Views' node is also present. On the right, a query window titled 'SQLQuery1.s...R6DELL (68) >' displays the following T-SQL code:

```
1  SELECT
2      g.GenreName,
3          m.EN_title,
4          m.Score
4  FROM Movie m
5  JOIN MovieGenres mg ON m.MovieID = mg.MovieID
6  JOIN Genres g ON mg.GenreID = g.GenreID
7  WHERE m.Score = (
8      SELECT MAX(m2.Score)
9      FROM Movie m2
10     JOIN MovieGenres mg2 ON m2.MovieID = mg2.MovieID
11     WHERE mg2.GenreID = g.GenreID
12 )
```

The results grid below shows the data from the query:

GenreName	EN_title	Score
Experimental	Rehearsing For the Performance	8.0
Portrait	Touran Khanom	7.3
Society	Gold Camer	5.2
Human Interest	Gold Camer	5.2
Adventure	Tsunami	5.1
Crime	Invasion	6.3
Mystery	Colchicum	5.8
Action	When Did You Last See Sahrar	7.6
War	The 23	6.6
Romance	Lodi Hashem's Passage	8.0
Comedy	Top Gear	8.7

۳) میخوام بدونم هر ژانر چند فیلم دارد و میانگین امتیاز آنها چقدر است؟

```

SELECT g.GenreName,
       COUNT(m.MovieID) AS MovieCount,
       AVG(m.Score) AS AverageScore
  FROM Movie m
  JOIN MovieGenres mg ON m.MovieID = mg.MovieID
  JOIN Genres g ON mg.GenreID = g.GenreID
 GROUP BY g.GenreName;
  
```

GenreName	MovieCount	AverageScore
Action	3	5.966666
Adventure	1	5.100000
Comedy	27	5.566666
Crime	2	5.050000
Drama	61	5.580327
Experimental	1	8.000000
Human Interest	1	5.200000
Mystery	1	5.800000
Portrait	1	7.300000
Romance	1	8.000000
Society	1	5.200000
War	1	6.600000

۴) میخوام فهرستی از فیلم هایی که طول زمانشان بیشتر از ۹۰ دقیقه و امتیاز بالای ۷ دارند را داشته باشم.

```

SELECT MovieID, EN_title, PERSIAN_title, Score, Time, Score
  FROM Movie
 WHERE Time > 90 AND Score > 7;
  
```

MovieID	EN_title	PERSIAN_title	Score	Time	Score
1	49	Damn Funny	8.0	105	8.0
2	51	Couples' Club	7.5	93	7.5
3	55	Russian	7.9	93	7.9
4	59	Prisoners	8.1	100	8.1
5	60	Chubby and I	8.5	91	8.5
6	70	The Rainbow Island	8.0	113	8.0
7	72	We're All in This Together	8.3	97	8.3
8	73	Touran Khanom	7.3	91	7.3
9	76	Rehearsing For the Performance	8.0	114	8.0
10	79	Loot Hashem's Passage	8.0	91	8.0
11	81	Being Born	8.0	91	8.0
12	85	Pinocchio, Uncle Sardar and Raeesi	8.0	96	8.0
13	89	Behind The Wall of Silence	8.0	96	8.0
14	91	When Did You Last See Sahar?	7.6	106	7.6

۵) حالا کمی چالشی تر میخوام بررسی کنیم که ژانر فیلم ها چگونه روی امتیاز IMDB تأثیر می گذارد. حتی اگر نیاز شد از توابع سفارشی استفاده کن و میانگین امتیاز هر ژانر را بسنج.

Object Explorer

Connect ▾ . (SQL Server 16.0.1000.6 - DESKTOP-6GTP5R6\DELL)

Databases

- System Databases
- Database Snapshots
- AdventureWorks2022
- DB11
- FirstDB
- PersianMovieDB
 - Database Diagrams
 - dbo.Diagram_0
- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Genres
 - dbo.Movie
 - dbo.MovieGenres
 - Dropped Ledger Tables
- Views
- External Resources
- Synonyms
- Programmability
- Query Store
- Service Broker
- Storage
- Security
- Server Objects

SQLQuery1.s...6\DELL (68)*

```
1 SELECT g.GenreName,
2      AVG(m.Score) AS AverageIMDBScore
3 FROM Movie m
4 JOIN MovieGenres mg ON m.MovieID = mg.MovieID
5 JOIN Genres g ON mg.GenreID = g.GenreID
6 GROUP BY g.GenreName
7 ORDER BY AverageIMDBScore DESC;
```

133 % No issues found

Results Messages

	GenreName	AverageIMDBScore
1	Experimental	8.000000
2	Romance	8.000000
3	Portrait	7.300000
4	War	6.600000
5	Action	5.966666
6	Mystery	5.800000
7	Drama	5.580327
8	Comedy	5.566666
9	Human Interest	5.200000
10	Society	5.200000
11	Adventure	5.100000
12	Crime	5.050000