DBT Problem Solving - Set - 002

Feb19/ DBT-PS/ 002

Database Technologies

Diploma in Advance Computing

February 2019

***Movie Table:***

|  |  |  |
| --- | --- | --- |
| **mvno** | **mvname** | **releaseyear** |
| 1 | Sholay | 1975 |
| 2 | Don | 1978 |
| 3 | Dostana | 1980 |
| 4 | Shaan | 1980 |
| 5 | Khel Khel Mein | 1975 |

***Team Table:***

|  |  |  |
| --- | --- | --- |
| **memberno** | **membername** | **membertype** |
| 1 | Dharmendra | actor |
| 2 | Amitabh Bachchan | actor |
| 3 | Hema Malini | actress |
| 4 | Jaya Bhaduri | actress |
| 5 | Zeenat Aman | actress |
| 6 | Shatrughan Sinha | actor |
| 7 | Raj Khosla | director |
| 8 | Ramesh Sippy | director |
| 9 | Shashi Kapoor | actor |
| 10 | Parveen Babi | actress |
| 11 | Bindiya Goswami | actress |
| 12 | G. P. Sippy | producer |
| 13 | Nariman Irani | producer |
| 14 | Yash Johar | Producer |
| 15 | Neetu Singh | actress |
| 16 | Kajol | actress |
| 17 | Ajay Devgan | actor |
| 18 | Ravi Malhotra | producer |
| 19 | Rishi Kapoor | actor |
| 20 | Rakesh Roshan | actor |

***Movie\_Team Table:***

|  |  |  |
| --- | --- | --- |
| **Id** | **mvno** | **memberno** |
| 1 | 1 | 1 |
| 2 | 1 | 2 |
| 3 | 1 | 3 |
| 4 | 1 | 4 |
| 5 | 2 | 2 |
| 6 | 2 | 5 |
| 7 | 3 | 2 |
| 8 | 3 | 5 |
| 9 | 3 | 6 |
| 10 | 3 | 7 |
| 11 | 1 | 8 |
| 12 | 4 | 2 |
| 13 | 4 | 6 |
| 14 | 4 | 10 |
| 15 | 4 | 11 |
| 16 | 4 | 9 |
| 17 | 1 | 12 |
| 18 | 2 | 13 |
| 19 | 3 | 14 |
| 20 | 4 | 12 |
| 21 | 5 | 19 |
| 22 | 5 | 20 |
| 23 | 5 | 15 |
| 24 | 5 | 18 |

**Given the above tables solve the following queries.**

1. **Write SQL statement which count the number of movies in which 'Amitabh Bachchan' has acted.**

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1. **Write the SQL statement to display the movie details having more than 5 members.**

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1. **Write SQL statement to find all movies of "Amitabh Bachchan" starting with letter 'D'.**

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1. **Write SQL statement to find all movies of "Amitabh Bachchan" that are released between the years 1978 and 1980.**

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1. **Write SQL statement which displays actor wise list of movies along with release year & movie name.**

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1. **Write SQL statement display producer name and number of movie did by this producer.**

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1. **Write SQL statement to display all the team members of ‘SHAAN’ movie.**

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1. **Write SQL statement to display the movie name and count how many members are working for each movie.**

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1. **Write the query to display movie name, member name, and member type for the movie ‘Khel Khel Mein’**

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1. **Write SQL statement which displays the member name who has worked with ‘Amitabh Bachchan’.**

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1. **Write SQL statement which displays the member name that are actors and find in how many movies they have worked.**

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1. **Write SQL statement that displays the movie name whose producer is ‘G. P. Sippy’**

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1. **Write SQL query to display the movie details which was released in the year 1980.**

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1. **Write SQL statement which displays the member names who are actress and has worked with ‘Amitabh Bachchan’.**

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1. **Write SQL statement to count in how many movie ‘Amitabh Bachchan’ has worked.**

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**ANS.**

1. **Select count(\*) from movie, team, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno and membername ='Amitabh Bachchan';**
2. **Select movie.\* from movie, team, movie\_team where movie.mvno = movie\_team.mvno and team.memberno=movie\_team.memberno group by movie.mvno, movie.mvname, releaseyear having count(\*) > 5**
3. **Select movie.\* from movie, team, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno and membername ='Amitabh Bachchan' and mvname like 'D%';**
4. **Select movie.\* from movie, team, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno and membername ='Amitabh Bachchan' and releaseyear between 1978 and 1980;**
5. **Select mvname, membername, releaseyear from movie, team, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno order by membername;**
6. **Select membername, count(\*) from team, movie\_team where team.memberno = movie\_team.memberno and membertype='producer' group by membername;**
7. **Select membername from team, movie, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno and mvname = 'Sholay';**
8. **Select mvname, count(\*) from team, movie, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno group by mvname;**
9. **Select mvname, membername, memberType from team, movie, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno and mvname = 'khel khel mein';**
10. **Select distinct membername from team, movie\_team where team.memberno = movie\_team.memberno and movie\_team.mvno in (select mvno from team, movie\_team where team.memberno = movie\_team.memberno and membername = 'Amitabh Bachchan') and membername <> 'Amitabh Bachchan';**
11. **Select membername, count(\*) from team, movie\_team where team.memberno = movie\_team.memberno and membertype = 'actor' group by membername;**
12. **Select mvname from movie, team, movie\_team where movie.mvno = movie\_team.mvno and team.memberno = movie\_team.memberno and membertype = 'producer' and membername = 'G. P. Sippy';**
13. **Select \* from movie where releaseyear = 1980;**
14. **Select distinct membername from team, movie\_team where team.memberno = movie\_team.memberno and movie\_team.mvno in (select mvno from team, movie\_team where team.memberno = movie\_team.memberno and membername = 'Amitabh Bachchan') and membertype = 'actress';**
15. **Select count(\*) from team, movie\_team where team.memberno = movie\_team.memberno and team. Membername = 'Amitabh Bachchan';**