

Section -B

Use an appropriate combination of SQL, stored procedures and/or triggers to implement

The ability to allow programmers to cast a new actor (by ID#) to a movie (by ID#).

Do not allow actors to be cast more than once for each movie.

Demonstrate that your system works by trying the following.

Cast George Faraday (# 124) in Slumdog Millionaire (# 921).

Cast George Faraday in Back to the Future (# 928).

Cast George Faraday (# 124) in Slumdog Millionaire (# 921)

Record in the script comments what happens with each of these updates and why.

```
SQL> SELECT * FROM MOVIE_CAST;
```

ACT_ID	MOV_ID	ROLE
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101	901	John Scottie Ferguson
102	902	Miss Giddens
103	903	T.E. Lawrence
104	904	Michael
105	905	Antonio Salieri
106	906	Rick Deckard

107	907 Alice Harford
108	908 McManus
110	910 Eddie Adams
111	911 Alvy Singer
112	912 San

ACT_ID	MOV_ID	ROLE
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113	913	Andy Dufresne
114	914	Lester Burnham
115	915	Rose DeWitt Bukater
116	916	Sean Maguire
117	917	Ed
118	918	Renton
120	920	Elizabeth Darko
121	921	Older Jamal
122	922	Ripley
114	923	Bobby Darin
109	909	J.J.Gittes

ACT_ID	MOV_ID	ROLE
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119	919	Alfred Borden
124	921	JAVED
124	928	David Shaw

```
ALTER TABLE MOVIE_CAST ADD CONSTRAINT UK_MOVIE_CAST_ACTOR UNIQUE  
(MOV_ID, ACT_ID);
```

```
SQL> CREATE OR REPLACE PROCEDURE NEW_CASTING (ACT_ID IN NUMBER, MOV_ID IN  
NUMBER, ROLE IN VARCHAR2) AS
```

```
2  BEGIN  
3  INSERT INTO MOVIE_CAST  
4  VALUES (ACT_ID, MOV_ID, ROLE);  
5  EXCEPTION  
6  WHEN OTHERS THEN  
7  DBMS_OUTPUT.PUT_LINE('THIS ACTOR IS ALREADY CAST FOR THIS MOVIE.');
```

```
8  END NEW_CASTING;  
9  /
```

```
SQL> EXECUTE NEW_CASTING (124,921,'JAVED');
```

```
THIS ACTOR IS ALREADY CAST FOR THIS MOVIE.
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE NEW_CASTING (124,928,'David Shaw');
```

```
This actor is already cast for this movie.
```

PL/SQL procedure successfully completed.

```
SQL> EXECUTE NEW_CASTING (124,921,'Jamil');
```

```
This actor is already cast for this movie.
```

PL/SQL procedure successfully completed.

Note: In case if the table is altered with unique constraint, no need of Trigger creation.