

Submission date: 14-Dec-2020 10:41PM (UTC-0500)

Submission ID: 1475418374

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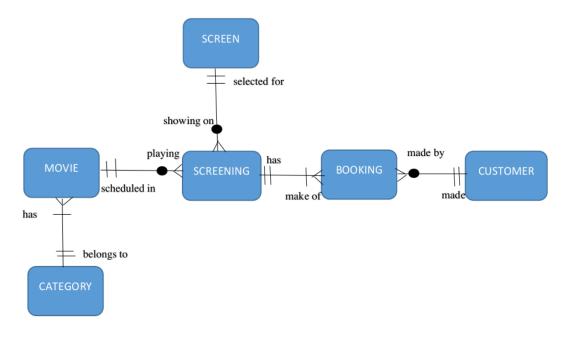
Word count: 1241

Character count: 10353

PROJECT

A)Conceptual Design

SilverCity Richmond Hill Cinemas



- 1. MOVIE has one and only one CATEGORY
- 2. CATEGORY belongs to one or may MOVIE
- 3. MOVIE scheduled in zero or many SCREENING
- 4. SCREENING playing one and only one MOVIE
- 5. SCREEN selected for zero or many SCREENING
- 6. SCREENING showing on one and only one SCREEN
- 7. BOOKING made by one and only one CUSTOMER
- 8. CUSTOMER made zero or many BOOKING
- 9. BOOKING make of MOVIE SHOW
- 10. MOVIE SHOW has one or many BOOKING

B) LOGICAL DESIGN

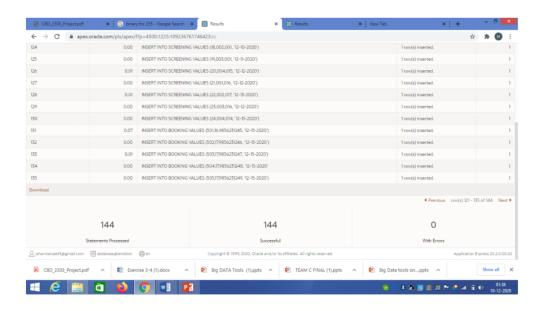
The skeleton relations are as follows

- 1. MOVIE (Movie_Id, Category_ID)
- 2. CATEGORY (Category_ID)
- 3. SCREEN (Screen_No,)
- 4. CUSTOMER(Customer_Contact)
- 5. SCREENING(Screening_Id , Movie_ID, Screen_No)
- 6. BOOKING(Booking_Reference_no_, Screening_Id__,Customer_Contact)

Relations of the SilverCity Richmond Hill Cinemas Booking System are follows

- MOVIE (<u>Movie_Id</u> , Movie_Name, Movie_Actor , Movie_Length , *Category_ID* , Movie_Actor_Role)
- 2. CATEGORY (Category_ID, Category_Name)
- 3. SCREEN (Screen_No, Screen_Capacity, Screen_Location)
- 4. CUSTOMER(Customer_Contact, Customer_Name, Customer_Address)
- 5. SCREENING(<u>Screening_Id</u>, *Movie_ID*, *Screen_No*, Date)
- 6. BOOKING(Booking_Reference_no , Screening_Id ,Customer_Contact, Booking_Date)

C) PHYSICAL DESIGN



THE SCRIPT IS AS FOLLOWS

```
DROP TABLE SCREEN CASCADE CONSTRAINTS;
CREATE TABLE SCREEN(
    SCREEN_NO NUMBER(1) PRIMARY KEY,
    SCREEN_CAPACITY NUMBER (3) NOT NULL,
    SCREEN_LOCATION VARCHAR2 (15) NOT NULL
);
DROP TABLE CATEGORY CASCADE CONSTRAINTS;
CREATE TABLE CATEGORY(
    CATEGORY_ID NUMBER (3) PRIMARY KEY,
    CATEGORY_NAME VARCHAR2 (15) NOT NULL
);
DROP TABLE CUSTOMER CASCADE CONSTRAINTS;
CREATE TABLE CUSTOMER(
    CUSTOMER_CONTACT NUMBER (10) PRIMARY KEY,
    CUSTOMER_NAME VARCHAR2 (15) NOT NULL,
    CUSTOMER_ADDRESS VARCHAR2 (30) NOT NULL
);
DROP TABLE MOVIE CASCADE CONSTRAINTS;
CREATE TABLE MOVIE(
    MOVIE_ID NUMBER(3) PRIMARY KEY,
    MOVIE_NAME VARCHAR(20) NOT NULL,
    MOVIE ACTOR VARCHAR (20) NOT NULL,
    MOVIE_LENGTH NUMBER(5,2) NOT NULL,
    MOVIE_CATEGORY_ID NUMBER(3)REFERENCES CATEGORY(CATEGORY_ID),
    MOVIE_ACTOR_ROLES NUMBER(2)
    );
DROP TABLE SCREENING CASCADE CONSTRAINTS;
CREATE TABLE SCREENING(
    SCREENING_ID NUMBER (3) PRIMARY KEY,
    SCREENING_SCREEN_NO NUMBER (1) REFERENCES SCREEN (SCREEN_NO),
    SCREENING_MOVIE_ID NUMBER (3) REFERENCES MOVIE (MOVIE_ID),
SCREENING_DATE DATE NOT NULL
);
DROP TABLE BOOKING CASCADE CONSTRAINTS;
```

```
CREATE TABLE BOOKING(
    BOOKING_REFERNCE_NO NUMBER (3) PRIMARY KEY,
    BOOKING_SCREENING_ID NUMBER (3) REFERENCES SCREENING (SCREENING_ID ),
    BOOKING_CUSTOMER_CONTACT NUMBER (10) REFERENCES CUSTOMER (CUSTOMER_CONTACT
),
    BOOKING_DATE Date
);
INSERT INTO SCREEN VALUES (1,80,'NORTH');
INSERT INTO SCREEN VALUES (2,90, 'SOUTH');
INSERT INTO SCREEN VALUES (3,100,'EAST');
INSERT INTO SCREEN VALUES (4,110,'WEST');
INSERT INTO CATEGORY VALUES (001, 'CLASSIC');
INSERT INTO CATEGORY VALUES (002, 'ACTION');
INSERT INTO CATEGORY VALUES (003,'SCI-FI');
INSERT INTO CATEGORY VALUES (004, 'ROMANTIC');
INSERT INTO CATEGORY VALUES (005, 'ANIMATED');
INSERT INTO CATEGORY VALUES (006, 'SCARY');
INSERT INTO CATEGORY VALUES (007, 'COMEDDY');
INSERT INTO CATEGORY VALUES (008, 'BIOPIC');
INSERT INTO CATEGORY VALUES (009, 'WAR');
INSERT INTO CATEGORY VALUES (0010, 'DOCUMENTARY');
INSERT INTO CUSTOMER VALUES (9856231245, 'HARMAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231246, 'GAGAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231247, 'RAMAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231248, 'HAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231249, 'HAAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231250, 'JIVAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231251, 'HANA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231252, 'HARRY', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231253, 'GAG', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231254, 'LADDI', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231255, 'SIA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231256, 'ANGAD', 'Toronto');
```

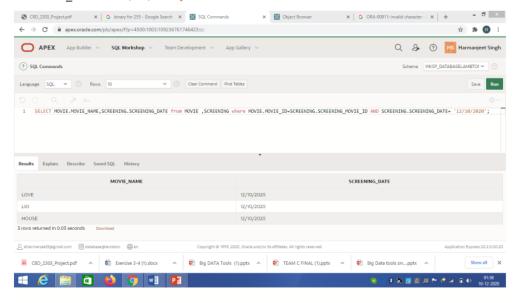
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INSERT INTO CUSTOMER VALUES (9856231257, 'SIA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231258, 'DAVINDER', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231259, 'SUKH', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856231260, 'MANPREET', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856232251, 'PRIYA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856233252, 'AMMY', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856234253, 'RAMAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856235254, 'JOHN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856236245,'JIO','Toronto');
INSERT INTO CUSTOMER VALUES (9856237246, 'CHU', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856238247, 'LIO', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856239248, 'PRINKA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856240249, 'NIKI', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856241250, 'GAGGY', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856242251, 'SARUCHI', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856243252, 'BHARTI', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856331253, 'PARAM', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856431254, 'MANTU', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856531245, 'GARISH', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856631246, 'ROCKY', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856731247, 'ISHA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856831248, 'RAJIV', 'Toronto');
INSERT INTO CUSTOMER VALUES (9856931249, 'AJAY', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857031250, 'KAMAL', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857131251, 'KOMAL', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857231252, 'RAJVIR', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857331253, 'HARINDER', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857431254, 'RAJAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857531245, 'PRINCE', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857631246, 'SIMA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857731247, 'BOND', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857831248, 'JAMES', 'Toronto');
INSERT INTO CUSTOMER VALUES (9857931249, 'MICHAL', 'Toronto');
INSERT INTO CUSTOMER VALUES (9858031250, 'BAANS', 'Toronto');
INSERT INTO CUSTOMER VALUES (9858131251, 'ANURAG', 'Toronto');
INSERT INTO CUSTOMER VALUES (9858231252, 'HARMAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9858331253, 'AMAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (9858431254, 'BILLI', 'Toronto');
INSERT INTO CUSTOMER VALUES (9866231245, 'BILLA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9876231246, 'KAL', 'Toronto');
INSERT INTO CUSTOMER VALUES (9886231247, 'BALA', 'Toronto');
INSERT INTO CUSTOMER VALUES (9896231248, 'JOGI', 'Toronto');
INSERT INTO CUSTOMER VALUES (9906231249, 'MILKHA', 'Toronto');
INSERT INTO CUSTOMER VALUES (8856231250, 'ROCKY', 'Toronto');
INSERT INTO CUSTOMER VALUES (7856231251, 'ROCK', 'Toronto');
INSERT INTO CUSTOMER VALUES (6856231252, 'JACKY', 'Toronto');
INSERT INTO CUSTOMER VALUES (5856231253, 'JACK', 'Toronto');
INSERT INTO CUSTOMER VALUES (4856231254, 'WAON', 'Toronto');
```

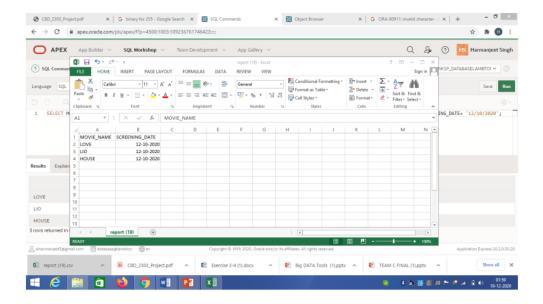
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INSERT INTO CUSTOMER VALUES (3856231245, 'PAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (2856231246, 'OAN', 'Toronto');
INSERT INTO CUSTOMER VALUES (1856231247, 'PAWAN', 'Toronto');
INSERT INTO MOVIE VALUES (001, 'HOUSE', 'AAMIR KHAN', 123.23,001,1);
INSERT INTO MOVIE VALUES (002, 'FAMILY', 'LIONARDO', 120.23,001,2);
INSERT INTO MOVIE VALUES (004, 'WAR', 'MORGAN', 120.00,002,1);
INSERT INTO MOVIE VALUES (005, 'RAMBO', 'SLYVESTER', 110.15,002,1);
INSERT INTO MOVIE VALUES (006, 'WAR', 'R NOLD', 85.23,002,2);
INSERT INTO MOVIE VALUES (007, 'GRAVITY', 'LIONARDO', 123.23,003,3);
INSERT INTO MOVIE VALUES (008, 'MARS', 'LIONARDO', 100.10,003,3);
INSERT INTO MOVIE VALUES (009, 'MATRIX', 'JOHN', 90.15,003,1);
INSERT INTO MOVIE VALUES (010, 'ROSE', 'JACK', 120.00,004,1);
INSERT INTO MOVIE VALUES (011, 'LOVE', 'WILIAM', 220.25,004,1);
INSERT INTO MOVIE VALUES (012, 'LIO', 'JACKY', 85.23,005,1);
INSERT INTO MOVIE VALUES (013, 'NUN', 'JONNY BRAVO', 114.25,006,1);
INSERT INTO MOVIE VALUES (014, 'MASK', 'JIM CARRY', 120.23,007,1);
INSERT INTO MOVIE VALUES (015, 'MILKHA', 'FARHAN', 180.40,008,1);
INSERT INTO MOVIE VALUES (016, 'WW 2', 'JOHN', 220.33,009,1);
INSERT INTO MOVIE VALUES (017, 'TOURIST', 'OSCAR', 110.15,002,1);
INSERT INTO MOVIE VALUES (018, 'INDIA', 'RAKESH', 85.23,002,2);
INSERT INTO SCREENING VALUES (1,001,001, '12-01-2020');
INSERT INTO SCREENING VALUES (2,002,002, '12-01-2020');
INSERT INTO SCREENING VALUES (3,003,002, '12-02-2020');
INSERT INTO SCREENING VALUES (4,004,004, '12-02-2020');
INSERT INTO SCREENING VALUES (5,001,005, '12-03-2020');
INSERT INTO SCREENING VALUES (6,002,006, '12-04-2020');
INSERT INTO SCREENING VALUES (7,003,013, '12-05-2020');
INSERT INTO SCREENING VALUES (8,004,012, '12-06-2020');
INSERT INTO SCREENING VALUES (9,001,011, '12-07-2020');
INSERT INTO SCREENING VALUES (10,002,011, '12-07-2020');
INSERT INTO SCREENING VALUES (11,003,004, '12-07-2020');
INSERT INTO SCREENING VALUES (12,004,005, '12-07-2020');
INSERT INTO SCREENING VALUES (13,001,005, '12-08-2020');
INSERT INTO SCREENING VALUES (14,002,013, '12-09-2020');
INSERT INTO SCREENING VALUES (15,003,012, '12-09-2020');
INSERT INTO SCREENING VALUES (16,004,011, '12-10-2020');
INSERT INTO SCREENING VALUES (17,001,012, '12-10-2020');
INSERT INTO SCREENING VALUES (18,002,001, '12-10-2020');
INSERT INTO SCREENING VALUES (19,003,001, '12-11-2020');
INSERT INTO SCREENING VALUES (20,004,015, '12-12-2020');
INSERT INTO SCREENING VALUES (21,001,016, '12-12-2020');
INSERT INTO SCREENING VALUES (22,002,017, '12-13-2020');
INSERT INTO SCREENING VALUES (23,003,016, '12-12-2020');
INSERT INTO SCREENING VALUES (24,004,014, '12-15-2020');
```

```
INSERT INTO BOOKING VALUES (501,16,9856231245, '12-09-2020');
INSERT INTO BOOKING VALUES (502,17,9856231246, '12-10-2020');
INSERT INTO BOOKING VALUES (503,17,9856231247, '12-08-2020');
INSERT INTO BOOKING VALUES (504,17,9856231248, '12-07-2020');
INSERT INTO BOOKING VALUES (505,17,9856231249, '12-09-2020');
INSERT INTO BOOKING VALUES (506,17,9856231250, '12-10-2020');
INSERT INTO BOOKING VALUES (507,18,9856231251, '12-09-2020');
INSERT INTO BOOKING VALUES (508,18,9856231252, '12-07-2020');
INSERT INTO BOOKING VALUES (509,18,9856231253, '12-15-2020');
INSERT INTO BOOKING VALUES (510,19,9856231254, '12-08-2020');
INSERT INTO BOOKING VALUES (511,19,9856231255, '12-04-2020');
INSERT INTO BOOKING VALUES (512,20,9856231256, '12-06-2020');
INSERT INTO BOOKING VALUES (513,20,9856231257, '12-09-2020');
INSERT INTO BOOKING VALUES (514,20,9856231258, '12-10-2020');
INSERT INTO BOOKING VALUES (514,20,9856231258, '12-10-2020');
```

1) Display all the films on screen tonight.

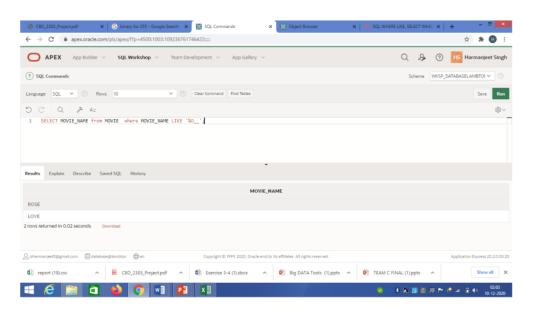
SELECT MOVIE.MOVIE_NAME, SCREENING.SCREENING_DATE from MOVIE , SCREENING where MOVIE.MOVIE_ID=SCREENING.SCREENING_MOVIE_ID AND SCREENING.SCREENING_DATE= '12/10/2020;





2) Display the film its name with the third letter from the end as "o."

SELECT MOVIE_NAME from MOVIE where MOVIE_NAME LIKE '%O__';



3.) Display which film has the most number of customers to watch

```
SELECT DISTINCT MOVIE_NAME FROM MOVIE, SCREENING WHERE

MOVIE_ID = SCREENING_MOVIE_ID AND SCREENING_MOVIE_ID=

( SELECT DISTINCT SCREENING_MOVIE_ID FROM SCREENING , BOOKING WHERE

SCREENING_ID= BOOKING_SCREENING_ID

AND BOOKING_SCREENING_ID =

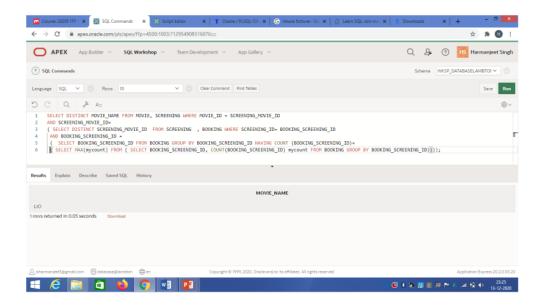
( SELECT BOOKING_SCREENING_ID FROM BOOKING GROUP BY BOOKING_SCREENING_ID

HAVING COUNT (BOOKING_SCREENING_ID)=

( SELECT MAX(mycount) FROM ( SELECT BOOKING_SCREENING_ID,

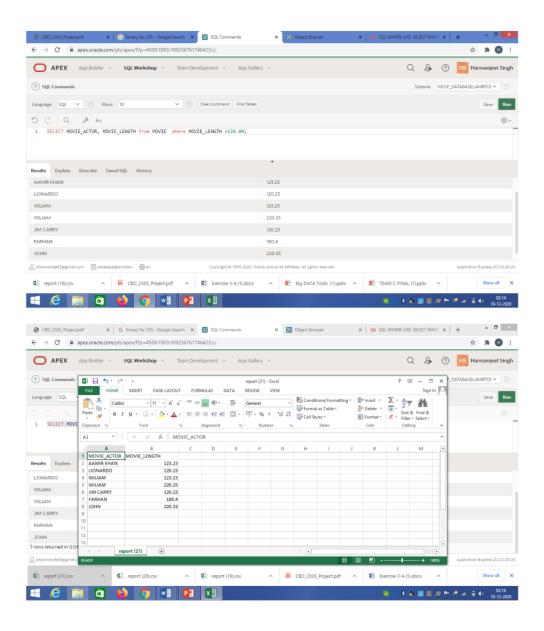
COUNT(BOOKING_SCREENING_ID) mycount FROM BOOKING GROUP BY BOOKING_SCREENING_ID

))));
```



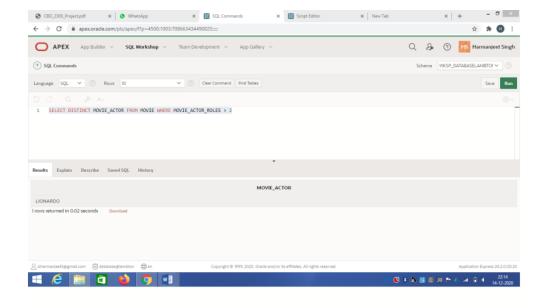
4) Display the actor who acts in the film, which has a length longer than 120 minutes

SELECT MOVIE_ACTOR, MOVIE_LENGTH from MOVIE where MOVIE_LENGTH >120.00;



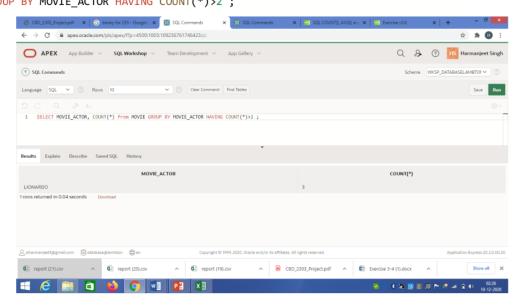
5) Display the actor who acts in more than two roles

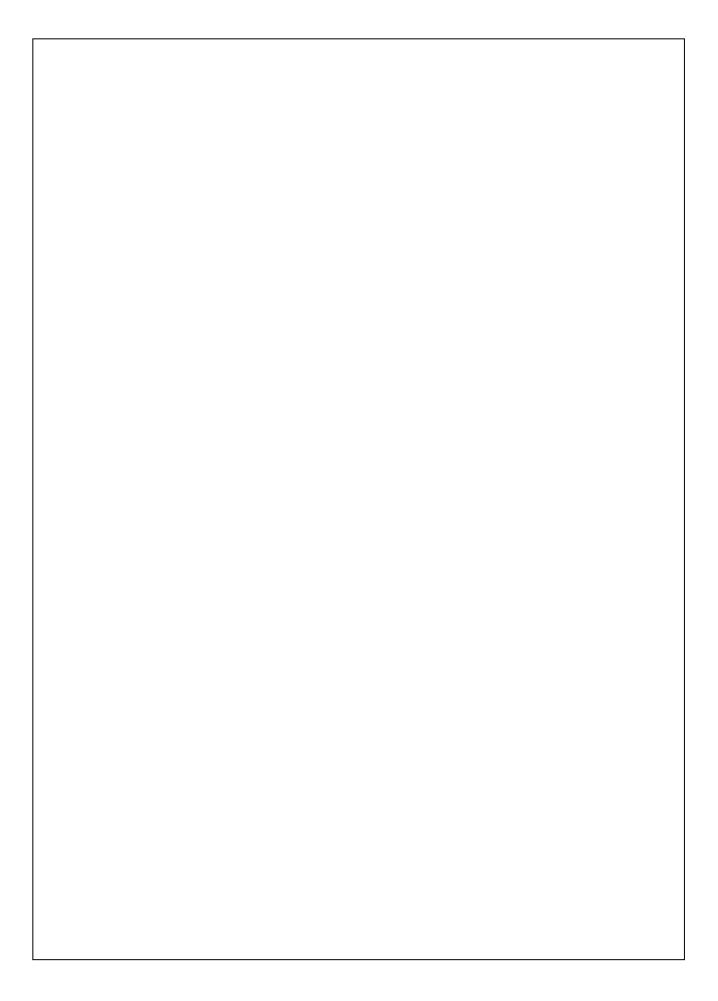
SELECT DISTINCT MOVIE_ACTOR FROM MOVIE WHERE MOVIE_ACTOR_ROLES > 2



Displaying the actor who acts in more than two movies

SELECT MOVIE_ACTOR, COUNT(*) from MOVIE
GROUP BY MOVIE_ACTOR HAVING COUNT(*)>2;





GRADEMARK REPORT

FINAL GRADE

PAGE 12

GENERAL COMMENTS

Instructor

A -4

B -3

C -2

Good

2 7 /40

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