--To select all columns of customers

SELECT \* FROM CUSTOMER;

--To select few attributes of customer entity

SELECT CFNAME,ACTIVE,CITY,EMAIL,NO\_OF\_RENTALS

FROM CUSTOMER;

--To select all columns of customers having total rental=6 with where condition

SELECT \*

FROM CUSTOMER

WHERE NO\_OF\_RENTALS=6;

/\*LOGICAL OPERATORS\*/

--To select all movies of cost<=55 & length>125(AND)

SELECT MOVIE\_TITLE,DESCRIPTION,LENGTH,COST,RATING

FROM MOVIE

WHERE COST<=55 AND LENGTH>125;

--To select all movies except movies released in year 2015 but specifically including "KNOCK KNOCK" MOVIE(OR)

SELECT MOVIE\_TITLE,RELEASE\_YEAR

FROM MOVIE

WHERE MOVIE\_TITLE='Knock Knock' OR RELEASE\_YEAR!=2015;

--To select all movies of cost>55 or length<125(NOT)

SELECT MOVIE\_TITLE,DESCRIPTION,LENGTH,COST,RATING

FROM MOVIE

WHERE NOT(COST<=55 AND LENGTH>125);

/\*ARITHMETIC OPERATORS\*/

--To just calculate total of cost and replacement\_cost(+)

SELECT MOVIE\_TITLE,GENRE,COST,REPLACEMENT\_COST,COST+REPLACEMENT\_COST

FROM MOVIE;

--To find movies having replacement cost more than cost of movie(-)

SELECT MOVIE\_TITLE,GENRE,COST,REPLACEMENT\_COST,(COST-REPLACEMENT\_COST) AS Remaining\_Amount

FROM MOVIE

WHERE COST-REPLACEMENT\_COST<0;

--To select movies of LENGTH>100 AND COST<100 when duration increased by 2(\*)

SELECT MOVIE\_TITLE,DESCRIPTION,COST,LENGTH,DURATION,DURATION\*2 AS NEW\_DURATION

FROM MOVIE

WHERE LENGTH>100 AND COST<100;

--To calculate new cost of movies during sale(/)

SELECT MOVIE\_TITLE,DESCRIPTION,COST,COST/2 AS SALE\_COST

FROM MOVIE;

--To give a view of MOD OPERATOR(MOD())

SELECT MOVIE\_TITLE,COST,MOD(COST,2)

FROM MOVIE;

/\*Miscellaneous operators\*/

--To select all movies having cost greater than all costs(20,40,70)(ALL)

SELECT \*

FROM MOVIE

WHERE COST>ALL(20,40,70);

--To select all movies having cost less than all costs(20,40,70)(ANY)

SELECT \*

FROM MOVIE

WHERE COST<Any(20,40,70);

--To select all movies having cost less than all costs(20,40,70)(SOME)

SELECT \*

FROM MOVIE

WHERE COST<SOME(20,40,70);

--To select all movies given in the list(IN)

SELECT MOVIE\_TITLE,MOVIE\_ID

FROM MOVIE

WHERE MOVIE\_TITLE IN('Forrest Gump','Saina','Tenet');

--To select all movies except given in the list(NOT IN)

SELECT MOVIE\_TITLE,MOVIE\_ID

FROM MOVIE

WHERE MOVIE\_TITLE NOT IN('Forrest Gump','Saina','Tenet');

--To select movies having duration in between 10 and 30(BETWEEN)

SELECT MOVIE\_TITLE,MOVIE\_ID,DURATION

FROM MOVIE

WHERE DURATION BETWEEN 10 AND 30;

--To select all movies except having duration in between 10 and 30(NOT BETWEEN)

SELECT MOVIE\_TITLE,MOVIE\_ID,DURATION

FROM MOVIE

WHERE DURATION NOT BETWEEN 10 AND 30;

--To select movies which are not rented by any one(IS NULL)

SELECT MOVIE\_TITLE,MOVIE\_ID,RENT\_ID

FROM MOVIE

WHERE RENT\_ID IS NULL;

--To select movies which are rented by some or the other customer(IS NOT NULL)

SELECT MOVIE\_TITLE,MOVIE\_ID,RENT\_ID

FROM MOVIE

WHERE RENT\_ID IS NOT NULL;

/\*LIKE OPERATOR\*/

--To display names of actors starting from 'A'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'A%';

--To display names of actors ending from 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'%a';

--To display names of actors starting from 'M' and ending with 'l'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'M%l';

--To display names of actors whose 2nd letter is 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'\_a%';

--To display names of actors whose 2nd last letter is 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'%a\_';

--To display names of actors having atleast one 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'%a%';

--To display names of actors having atleast two 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'%a%a%';

--To display names of actors whose name is 5 characters long

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'\_\_\_\_\_';

--To display names of actors whose name is minimum 6 characters long

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'%\_\_\_\_\_\_%';

--To display names of actors whose name is 5 characters long and 1st character is 'H'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'H\_\_\_\_';

--To display names of actors whose 2nd letter is either 'a' or 'o'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME LIKE'\_a%' OR AFNAME LIKE '\_o%';

/\*NOT LIKE OPERATOR\*/

--To display names of actors EXCEPT starting from 'A'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'A%';

--To display names of actors EXCEPT ending from 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'%a';

--To display names of actors EXCEPT starting from 'M' and ending with 'l'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'M%l';

--To display names of actors EXCEPT whose 2nd letter is 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'\_a%';

--To display names of actors EXCEPT whose 2nd last letter is 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'%a\_';

--To display names of actors EXCEPT having atleast one 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'%a%';

--To display names of actors EXCEPT having atleast two 'a'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'%a%a%';

--To display names of actors EXCEPT whose name is 5 characters long

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'\_\_\_\_\_';

--To display names of actors EXCEPT whose name is minimum 6 characters long

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'%\_\_\_\_\_\_%';

--To display names of actors EXCEPT whose name is 5 characters long and 1st character is 'H'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'H\_\_\_\_';

--To display names of actors EXCEPT whose 2nd letter is either 'a' or 'o'

SELECT AFNAME

FROM ACTOR

WHERE AFNAME NOT LIKE'\_a%' OR AFNAME NOT LIKE '\_o%';

/\*CONCATENATION OPERATOR\*/

--To get the birth and death year in single column

SELECT BIRTH\_YEAR,DEATH\_YEAR,BIRTH\_YEAR || '-' || DEATH\_YEAR AS LIFE

FROM DIRECTOR;

/\*SET OPERATOR\*/

--To get the following actors with the given roles acting in one of the two movies or both(UNION)

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Hero','Villian','Criminal','Maid')

UNION

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Singer','Dancer','Comedian','Villian');

--To get the following actors with the given roles acting in one of the two movies or both along with the actor who is common(UNION ALL)

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Hero','Villian','Criminal','Maid')

UNION ALL

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Singer','Dancer','Comedian','Villian');

--To get actors who is acting in both the movies(INTERSECT)

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Hero','Villian','Criminal','Maid')

INTERSECT

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Singer','Dancer','Comedian','Villian');

--To get actors who is acting in 1st movie but not in 2nd movie(MINUS)

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Hero','Villian','Criminal','Maid')

MINUS

SELECT \* FROM ACTED\_IN

WHERE ROLE IN('Singer','Dancer','Comedian','Villian');

/\*AGGREGATE FUNCTIONS\*/

---To calculate average length of movies

SELECT AVG(LENGTH)

FROM MOVIE;

---To GET THE MOVIE OF MAXIMUM LENGTH

SELECT MAX(LENGTH)

FROM MOVIE;

--To get the movie of minimum length

SELECT MIN(LENGTH)

FROM MOVIE;

--To get the total length of all the movies

SELECT SUM(LENGTH)

FROM MOVIE;

--To get the number of movies having distinct length

SELECT COUNT(DISTINCT LENGTH)

FROM MOVIE;

--To remove duplicates /find distinct producers of different countries

SELECT \* FROM PRODUCER;

SELECT DISTINCT COUNTRY

FROM PRODUCER;

/\*ORDER BY CLAUSE\*/

--Arranging first name of actor in ascending order(optional keyword)

SELECT ACTOR\_ID,AFNAME

FROM ACTOR

ORDER BY AFNAME ASC;

--Arranging first name of actor in descending order

SELECT ALNAME,AFNAME

FROM ACTOR

ORDER BY AFNAME DESC;

/\*GROUP BY CLAUSE\*/

--To find number of actors acting in individual movies

SELECT MOVIE\_ID,COUNT(\*) AS No\_of\_actors

FROM ACTED\_IN

GROUP BY MOVIE\_ID;

/\*GROUP BY with HAVING CLAUSE\*/

--To find movies having minimum actors 3

SELECT MOVIE\_ID,COUNT(\*) AS No\_of\_actors

FROM ACTED\_IN

GROUP BY MOVIE\_ID

HAVING COUNT(\*)>=3;