Project 1

 1. Write a query to display movie names and number of times that movie is issued to customers. In case movies are never issued to customers display number of times as 0.Display the details in sorted order based on number of times (in descending order) and then by movie name (in ascending order).

The Alias name for the number of movies issued is ISSUE_COUNT.

select m.movie_name,count(c.movie_id) as'issue_count' from movies_master m left join customer_issue_details c on m.movie_id=c.movie_id

group by MOVIE_NAME order by MOVIE_NAME asc,issue_count desc;

movie_name	issue_count
CASABLANCA	2
DIE HARD	4
INCEPTION	1
SHAUN OF THE DEAD	2
THE DARK KNIGHT	2
THE MATRIX	1
GONE WITH THE WIND	3
OFFICE SPACE	1
THE NOTEBOOK	0
TITANIC	2
YOUNG FRANKENSTEIN	1

2. Write a query to display id, name, age, contact no of customers whose age is greater than 25 and who have registered in the year 2012. Display contact no in the below format +91-XXX-XXX-XXXX example +91-987-678-3434 and use the alias name as "CONTACT_ISD". If the contact no is null then display as 'N/A' Sort all the records in ascending order based on age and then by name.

select customer_id, customer_name, age,

coalesce(CONCAT('+91-', SUBSTRING(contact_no, 1, 3), '-', SUBSTRING(contact_no, 4, 3), '-', SUBSTRING(contact_no, 7, 4)),'N/A')as 'CONTACT_ISD'

from customer_master where age > 25 and year(DATE_OF_REGISTRATION) = 2012

order by age asc, customer_name asc;

customer_id	customer_name	age	CONTACT_ISD
C00007	GEETHA REDDY	30	+91-897-616-7890
C00005	SHIV PRASAD	30	N/A
C00002	AGNESH	35	+91-892-315-6781
C00004	RAJIB MITRA	45	+91-983-035-6781

3. Write a query to display the movie category and number of movies in that category. Display records based on number of movies from higher to lower order and then by movie category in ascending order.

Hint: Use NO_OF_MOVIES as alias name for number of movies.

select movie_category,count(movie_id) as 'NO_OF_MOVIES' from movies_master group by MOVIE_CATEGORY order by NO_OF_MOVIES desc,MOVIE_CATEGORY asc ;

movie_category	NO_OF_MOVIES
ACTION	3
ROMANCE	2
COMEDY	1
ROMANCE	1
ACTION	1
COMEDY	1
COMEDY	1
ROMANCE	1

4. Write a query to display the number of customers having card with description "Gold card". Use CUSTOMER_COUNT as alias name for number of customers.

select count(c.CUSTOMER_ID) as CUSTOMER_COUNT from customer_card_details c join library_card_master l on c.CARD_ID=l.CARD_ID where l.DESCRIPTION="GOLD CARD ";

CUSTOMER_COUNT
2

5. Write a query to display the customer id, customer name, year of registration, library card id, card issue date of all the customers who hold library card. Display the records sorted by customer name in descending order. Use REGISTERED_YEAR as alias name for year of registration.

select c.customer_id,c.customer_name,year(c.date_of_registration) as "REGISTERED_YEAR",d.card_id ,d.issue_date from customer_master c join customer_card_details d

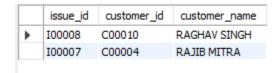on c.CUSTOMER_ID=d.CUSTOMER_ID order by CUSTOMER_NAME desc;

	customer_id	customer_name	REGISTERED_YEAR	card_id	issue_date
▶	C00005	SHIV PRASAD	2012	CRD003	2012-05-13
	C00004	RAJIB MITRA	2012	CRD003	2013-05-13
	C00003	T RAMACHANDRAN	2012	CRD002	2013-05-13
	C00001	NITIN	2012	CRD001	2012-05-13
	C00002	AGNESH	2012	CRD002	2012-05-13

6. Write a query to display issue id, customer id, customer name for the customers who have paid fine and whose name starts with 'R'. Fine is calculated based on return date and actual date of return. If the date of actual return is after date of return then fine need to be paid by the customer.

Display the records sorted in ascending order based on customer name.

select d.issue_id,d.customer_id,m.customer_name from customer_issue_details d join customer_master m on d.CUSTOMER_ID=m.CUSTOMER_ID

where m.CUSTOMER_NAME like 'R%' and d.ACTUAL_DATE_RETURN >d.RETURN_DATE order by m.CUSTOMER_NAME asc;

	issue_id	customer_id	customer_name
▶	I00008	C00010	RAGHAV SINGH
	I00007	C00004	RAJIB MITRA

7. Write a query to display customer id, customer name, card id, card description and card amount in dollars of customers who have taken movie on the same day the library card is registered. For Example Assume John registered a library card on 12th Jan 2013 and he took a movie on 12th Jan 2013 then display his details. AMOUNT_DOLLAR = amount/85.8 and round it to zero decimal places and display as $Amount. Example Assume 500 is the amount then dollar value will be $10. Use AMOUNT_DOLLAR as alias name for amount in dollar. Display the records in ascending order based on customer name.

select m.customer_id,m.customer_name,d.card_id,description,concat('$',round(l.amount/85.8,0))as "AMOUNT_DOLLAR"

FROM customer_master m join customer_card_details d on m.CUSTOMER_ID=d.CUSTOMER_ID

join library_card_master l on d.card_id= l.CARD_ID

join customer_issue_details i on m.customer_id=i.CUSTOMER_ID

where i.ISSUE_DATE= d.ISSUE_DATE

order by m.CUSTOMER_NAME asc;

customer_id	customer_name	card_id	description	AMOUNT_DOLLAR
C00003	T RAMACHANDRAN	CRD002	GOLD CARD	$23

8. Write a query to display the customer name and number of movies issued to that customer sorted by customer name in ascending order. If a customer has not been issued with any movie then display 0. Use MOVIE_COUNT as alias name for number of movies issued.

select m.customer_name ,count(d.movie_id) as "movie_count" from customer_master m

left join customer_issue_details d on m.CUSTOMER_ID=d.CUSTOMER_ID group by m.CUSTOMER_ID order by CUSTOMER_NAME;

customer_name	movie_count
AGNESH	3
NITIN	2
T RAMACHANDRAN	8
AJAY GHOSH	0
GEETHA REDDY	0
RAGHAV SINGH	1
RAJ SEKHANRAN	1
RAJAN PILLAI	0
RAJIB MITRA	4
RIA NATRAJAN	0
SHIV PRASAD	0

9. Write a query to display the issue id, issue date, customer id, customer name and contact number for videos that are issued in the year 2013.Display the records in descending order based on issue date of the video.

select i.issue_id,i.issue_date,i.customer_id,m.customer_name,m.contact_no from customer_issue_details i

join customer_master m on i.CUSTOMER_ID=m.CUSTOMER_ID where year(i.issue_date)='2013' order by ISSUE_DATE desc;

issue_id	issue_date	customer_id	customer_name	contact_no
I00012	2013-11-28	C00001	NITIN	9830354218
I00013	2013-05-13	C00003	T RAMACHANDRAN	9831289761
I00014	2013-05-13	C00003	T RAMACHANDRAN	9831289761
I00017	2013-04-15	C00003	T RAMACHANDRAN	9831289761
I00009	2013-03-16	C00011	RAJ SEKHANRAN	8423178906
I00016	2013-03-05	C00003	T RAMACHANDRAN	9831289761
I00008	2013-03-02	C00010	RAGHAV SINGH	9675167890
I00015	2013-02-03	C00003	T RAMACHANDRAN	9831289761

10. Write a query to display the director's name, number of movies directed by the director who directed more than one movie. Display the director name in capital letters. Use DIRECTOR_NAME as alias name for director name column Display the records sorted in ascending order based on director_name.

select upper(director) as 'director_name',count(movie_id) as movie_count from movies_master

group by DIRECTOR having count(movie_id)>1 order by DIRECTOR asc;

director_name	movie_count
CHRISTOPHER NOLAN	2