Module 1 mini project date-14/07/25

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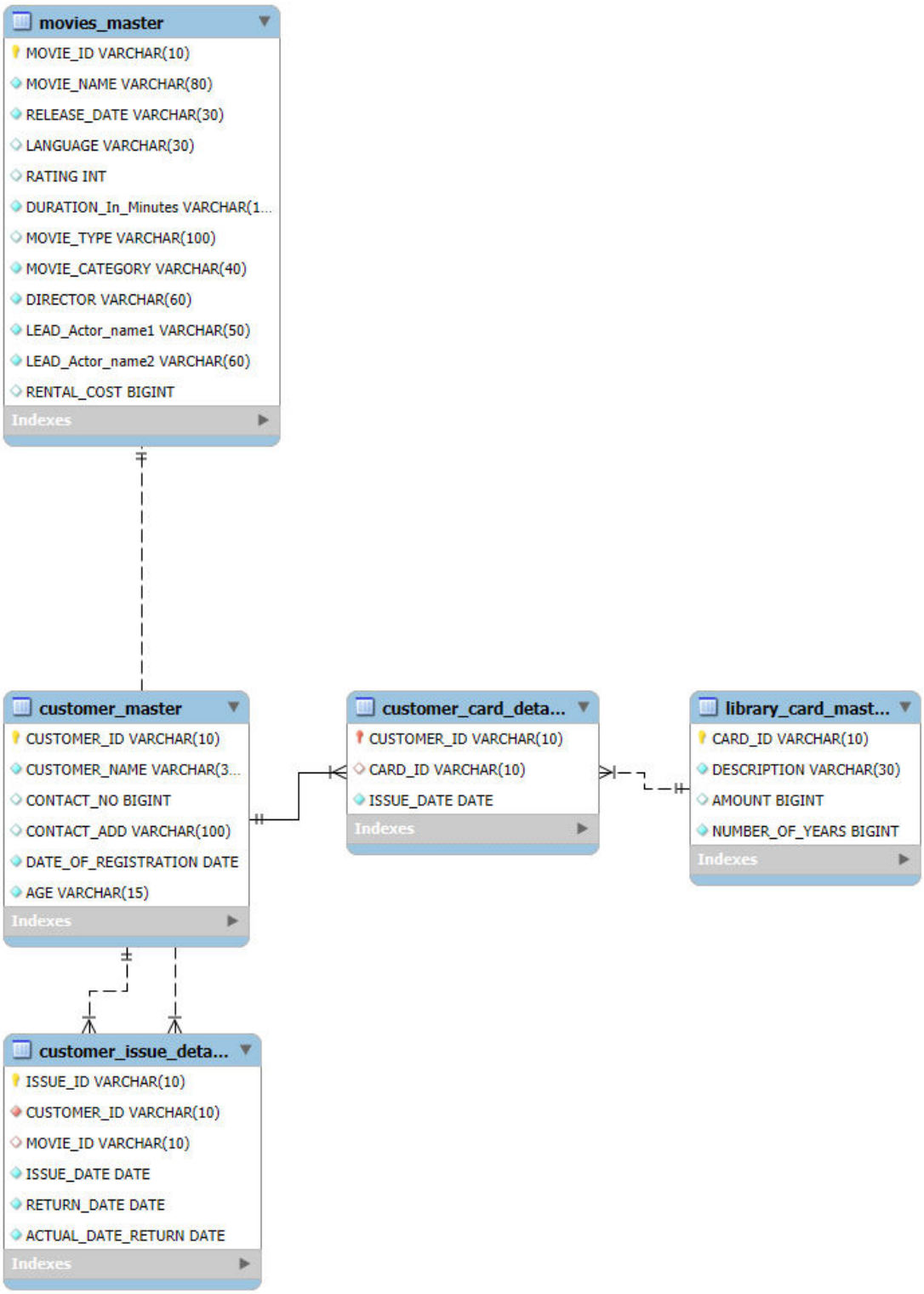
Video Management db



Video Management database

```
create database videomanagementdb;

use videomanagementdb;
```

ddl commands

customer_master

```
create table CUSTOMER_MASTER
(
        CUSTOMER_ID Varchar(10),
        CUSTOMER_NAME Varchar(30) NOT NULL,
        CONTACT_NO BIGINT(20),
        CONTACT_ADD Varchar(100),
        DATE_OF_REGISTRATION Date NOT NULL,
        AGE Varchar(15)NOT NULL,
        Constraint MT_cts1 PRIMARY KEY(CUSTOMER_ID)
);
```

MOVIES_MASTER

```
Create table MOVIES_MASTER
(
        MOVIE_ID Varchar(10),
        MOVIE_NAME Varchar(80) NOT NULL,
        RELEASE_DATE Varchar(30) NOT NULL,
        LANGUAGE Varchar(30),
        RATING int(2),
        DURATION_In_Minutes VARCHAR(10) NOT NULL,
        MOVIE_TYPE Varchar(100),
        MOVIE_CATEGORY VARCHAR(40) NOT NULL,
```

```
        DIRECTOR VARCHAR(60) NOT NULL,
        LEAD_Actor_name1 Varchar(50) NOT NULL,
        LEAD_Actor_name2 VARCHAR(60) NOT NULL,
        RENTAL_COST BIGINT(10),
        Constraint MT_cts4 PRIMARY KEY(MOVIE_ID)
    );
```

CUSTOMER_ISSUE_DETAILS

```
Create table CUSTOMER_ISSUE_DETAILS
(
        ISSUE_ID Varchar(10) NOT NULL,
        CUSTOMER_ID Varchar(10) NOT NULL,
        MOVIE_ID VARCHAR(10),
        ISSUE_DATE Date NOT NULL,
        RETURN_DATE Date NOT NULL,
          ACTUAL_DATE_RETURN Date NOT NULL,
        Constraint MT_cts5 PRIMARY KEY(ISSUE_ID),
          Constraint MT_Mem FOREIGN KEY(CUSTOMER_ID) References
CUSTOMER_MASTER(CUSTOMER_ID),
          Constraint MT_Mem1 FOREIGN KEY(MOVIE_ID) References MOVIES_MASTER(MOVIE_ID)

);
```

LIBRARY_CARD_MASTER

```
Create table LIBRARY_CARD_MASTER
(
        CARD_ID Varchar(10),
        DESCRIPTION Varchar(30) NOT NULL,
```

```
        AMOUNT          BIGINT(50),
        NUMBER_OF_YEARS bigint(10) NOT NULL,
        Constraint MT_cts2 PRIMARY KEY(CARD_ID)
);
```

CUSTOMER_CARD_DETAILS

```
Create table CUSTOMER_CARD_DETAILS
(
        CUSTOMER_ID Varchar(10),
        CARD_ID VARCHAR(10),
        ISSUE_DATE DATE NOT NULL,
        Constraint MT_cts3 PRIMARY KEY(CUSTOMER_ID),
        Constraint MT_CTS41 FOREIGN KEY(CUSTOMER_ID) References
CUSTOMER_MASTER(CUSTOMER_ID),
            Constraint MT_CTS42 FOREIGN KEY(CARD_ID) References LIBRARY_CARD_MASTER(CARD_ID)
);
```

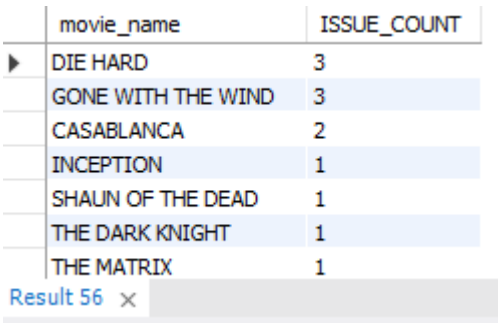
1. Write a query to display movie names and number of times that movie is issued to customers. In case movies are never issued to customers display number of times as 0.

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,
case
when count(distinct(i.customer_id)) > 0 then count(distinct(i.customer_id))
else 0
end as ISSUE_COUNT
from movies_master m left join customer_issue_details i
on m.movie_id=i.movie_id
```

group by m.movie_name

order by issue_count desc ,m.movie_name;



movie_name	ISSUE_COUNT
DIE HARD	3
GONE WITH THE WIND	3
CASABLANCA	2
INCEPTION	1
SHAUN OF THE DEAD	1
THE DARK KNIGHT	1
THE MATRIX	1

Result 56

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,ifnull(

concat(

'+91-',substring(contact_no,1,3),

'-',substring(contact_no,4,3),'-',substring(contact_no,7,4)

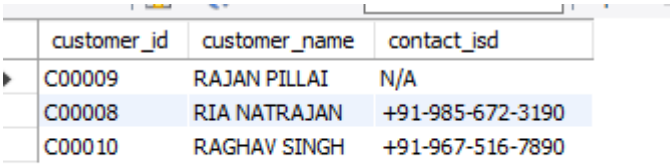
),

'N/A')as contact_isd

from customer_master

where age>25 and year(date_of_registration)>2012

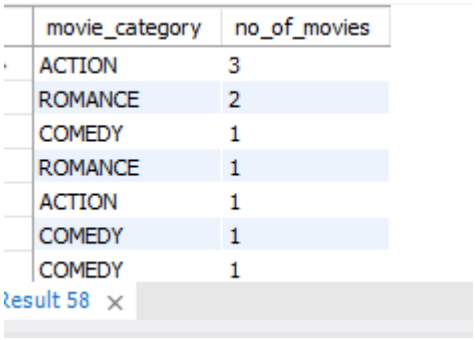
order by age,customer_name;



customer_id	customer_name	contact_isd
C00009	RAJAN PILLAI	N/A
C00008	RIA NATRAJAN	+91-985-672-3190
C00010	RAGHAV SINGH	+91-967-516-7890

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;
```

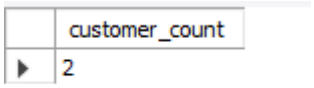


movie_category	no_of_movies
ACTION	3
ROMANCE	2
COMEDY	1
ROMANCE	1
ACTION	1
COMEDY	1
COMEDY	1

Result 58

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(customer_id)as customer_count

from customer_card_details

where card_id=(

select card_id from library_card_master

where 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 cus.customer_id,customer_name,year(date_of_registration) as
registered_year,card_id,issue_date

from customer_master cus join customer_card_details card

on cus.customer_id=card.customer_id

order by customer_name desc;
```

customer_id	customer_name	registered_year	card_id	issue_date
C00004	RAJIB MITRA	2012	CRD003	2013-05-13
C00003	T RAMACHANDRAN	2012	CRD002	2013-05-13
C00005	SHIV PRASAD	2012	CRD003	2012-05-13
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 i.issue_id,cs.customer_id,cs.customer_name

from customer_issue_details i join customer_master cs

on i.customer_id=cs.customer_id

where cs.customer_name like 'R%' and

i.actual_date_return >i.return_date

order by cs.customer_name;
```

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 cs.customer_id,cs.customer_name,cd.card_id,description,concat('$',round(lm.amount/85.8)) as
amount_in_dollor

from customer_master cs join customer_card_details cd

on cs.customer_id=cd.customer_id join library_card_master lm

on cd.card_id=lm.card_id join customer_issue_details cis

on cis.customer_id=cs.customer_id

where cd.issue_date=cis.issue_date
```

order by cs.customer_name;

customer_id	customer_name	card_id	description	amount_in_dollor
C00002	AGNESH	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 cs.customer_name,count(issue_id)

from customer_master cs left join customer_issue_details cid

on cs.customer_id=cid.customer_id

group by cs.customer_name

order by cs.customer_name;

customer_name	count(issue_id)
AGNESH	4
NITIN	2
SHIV PRASAD	0
T RAMACHANDRAN	8
AJAY GHOSH	0
GEETHA REDDY	0
RAGHAV SINGH	1

Result 64

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,cs.customer_id,cs.customer_name,cs.contact_no,year(issue_date)

from customer_master cs join customer_issue_details i

where year(issue_date)=2013

order by issue_date desc;

issue_id	customer_id	customer_name	contact_no	year(issue_date)
I00012	C00001	NITIN	9830354218	2013
I00012	C00005	SHIV PRASAD	NULL	2013
I00012	C00004	RAJIB MITRA	9830356781	2013
I00012	C00003	T RAMACHANDRAN	9831289761	2013
I00012	C00002	AGNESH	8923156781	2013
I00012	C00006	AJAY GHOSH	8763478901	2013
I00012	C00007	GEETHA REDDY	8976167890	2013

Result 65

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)

from movies_master

group by director

having count(movie_id)>1

order by director;
```

Result Grid | Filter Rows:

	upper(director)
▶	CHRISTOPHER NOLAN