SQL project on Library

- Data base name:- Library

- Tables name :- 1. dept_of_books
                   2. library_members
                   3. supplier_details
                   4. books_holders

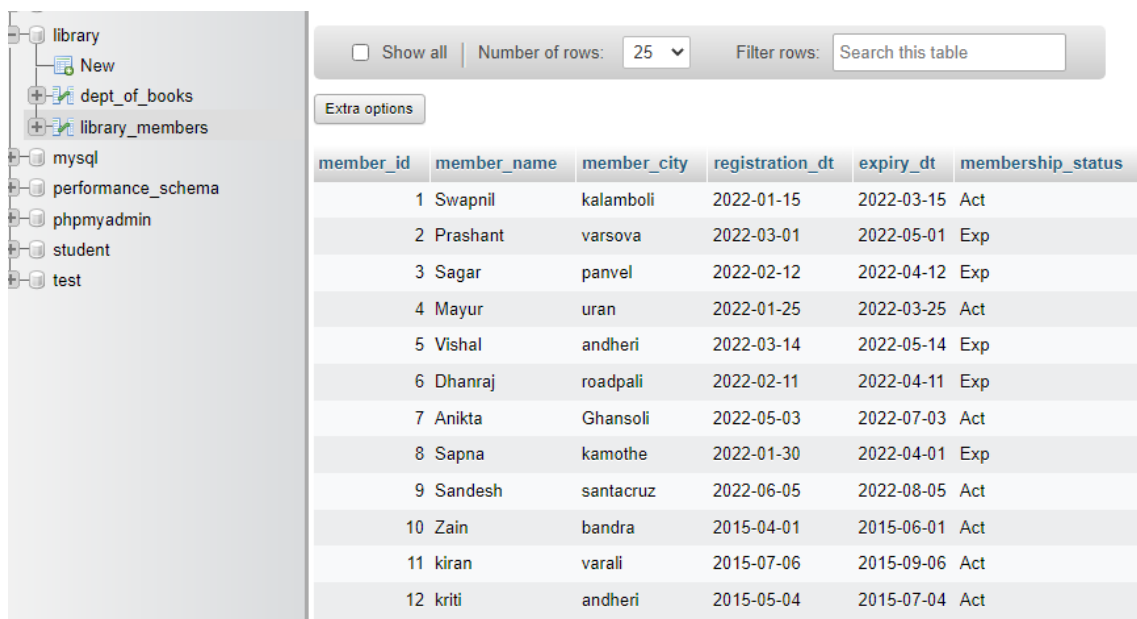---

1. dept_of_books

- CREATE TABLE dept_of_books(sr_no int(10),

    sub_name varchar (30),

    books_nos varchar (40),

    supplier_id int,

    primary key(sr_no),

    foreign key supplier_id references supplier_details (supplier_id));

- INSERT INTO dept_of_books(sr_no, sub_name, books_nos) VALUES
    (001,'English',40,1),(002,'maths',50,2),
    (003,'science',30,3),(004,'social_sci',20,4),
    (005,'history',45,5),(006,'lang_&_injustice',30,6),
    (007,'literature',23,1),(008,'performing_arts',30,2),
    (009,'philosphy',14,3),(010,'visual_arts',35,4),
    (011,'political_sci',40,5),(012,'economics',16,6),
    (013,'psychology',44,1),(014,'sociolgy',37,2),
    (015,'cultural_&_ethnics',45,3),(016,'chemistry',40,4),
    (017,'earth_sci',24, 5),(018,'life_sci',26,6), (019,'space_sci',33,1);

			sr_no	sub_name	books_nos	supplier_id
☐	🖊 Edit	🗎 Copy	⊝ Delete	1	English	40	1
☐	🖊 Edit	🗎 Copy	⊝ Delete	2	maths	50	2
☐	🖊 Edit	🗎 Copy	⊝ Delete	3	science	30	3
☐	🖊 Edit	🗎 Copy	⊝ Delete	4	social_sci	20	4
☐	🖊 Edit	🗎 Copy	⊝ Delete	5	history	45	5
☐	🖊 Edit	🗎 Copy	⊝ Delete	6	lang_&_injustice	30	6
☐	🖊 Edit	🗎 Copy	⊝ Delete	7	literature	23	1
☐	🖊 Edit	🗎 Copy	⊝ Delete	8	performing_arts	30	2
☐	🖊 Edit	🗎 Copy	⊝ Delete	9	philosphy	14	3
☐	🖊 Edit	🗎 Copy	⊝ Delete	10	visual_arts	35	4
☐	🖊 Edit	🗎 Copy	⊝ Delete	11	political_sci	40	5
☐	🖊 Edit	🗎 Copy	⊝ Delete	12	economics	16	6
☐	🖊 Edit	🗎 Copy	⊝ Delete	13	psychology	44	1
☐	🖊 Edit	🗎 Copy	⊝ Delete	14	sociolgy	37	2
☐	🖊 Edit	🗎 Copy	⊝ Delete	15	cultural_&_ethnics	45	3
☐	🖊 Edit	🗎 Copy	⊝ Delete	16	chemistry	40	4
☐	🖊 Edit	🗎 Copy	⊝ Delete	17	earth_sci	24	5
☐	🖊 Edit	🗎 Copy	⊝ Delete	18	life_sci	26	6
☐	🖊 Edit	🗎 Copy	⊝ Delete	19	space_sci	33	1

2. library_members

- create table library_members(member_id int(10),
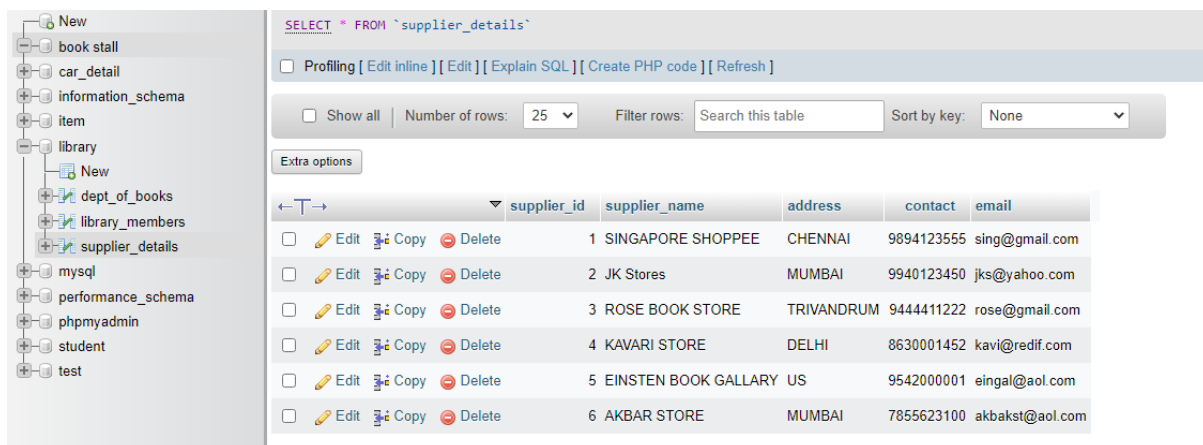   member_name varchar(30)not null,
                                member_city varchar (20),
                                registration_dt date not null,
                                expiry_dt date,
                                membership_status varchar(15)not null
                                primary key (member_id));

- INSERT INTO library_members(member_id, member_name, member_city, registration_dt, expiry_dt, membership_status)
    VALUES (01,'Swapnil','kalamboli','2022-01-15','2022-03-15','Act'),
            (02,'Prashant','varsova','2022-03-01','2022-05-01','Exp'),
            (03,'Sagar','panvel','2022-02-12','2022-04-12','Exp'),
            (04,'Mayur','uran','2022-01-25','2022-03-25','Act'),
            (05,'Vishal','andheri','2022-03-14','2022-05-14','Exp'),
            (06,'Dhanraj','roadpali','2022-02-11','2022-04-11','Exp'),
            (07,'Anikta','Ghansoli','2022-05-03','2022-07-03','Act'),
            (08,'Sapna','kamothe','2022-01-30','2022-04-01','Exp'),
            (09,'Sandesh','santacruz','2022-06-05','2022-08-05','Act'),
            (10,'Zain','bandra','2015-04-01','2015-06-01','Act'),
            (11,'kiran','varali','2015-07-06','2015-09-06','Act'),
            (12,'kriti','andheri','2015-05-04','2015-07-04','Act');

library
  New
  dept_of_books
  library_members
mysql
performance_schema
phpmyadmin
student
test

Show all | Number of rows: 25 v   Filter rows: Search this table

Extra options

member_id	member_name	member_city	registration_dt	expiry_dt	membership_status
1	Swapnil	kalamboli	2022-01-15	2022-03-15	Act
2	Prashant	varsova	2022-03-01	2022-05-01	Exp
3	Sagar	panvel	2022-02-12	2022-04-12	Exp
4	Mayur	uran	2022-01-25	2022-03-25	Act
5	Vishal	andheri	2022-03-14	2022-05-14	Exp
6	Dhanraj	roadpali	2022-02-11	2022-04-11	Exp
7	Anikta	Ghansoli	2022-05-03	2022-07-03	Act
8	Sapna	kamothe	2022-01-30	2022-04-01	Exp
9	Sandesh	santacruz	2022-06-05	2022-08-05	Act
10	Zain	bandra	2015-04-01	2015-06-01	Act
11	kiran	varali	2015-07-06	2015-09-06	Act
12	kriti	andheri	2015-05-04	2015-07-04	Act

3. supplier_details

➢ create table supplier_details(supplier_id int(3)primary key,
    supplier_name Varchar(30) not null,
    address Varchar(50),
    contact bigint(10) NOT NULL,
    email Varchar(15) NOT NULL);

➢ INSERT INTO supplier_details(supplier_id, supplier_name, address,contact, email)
VALUES ('01','SINGAPORE SHOPPEE', 'CHENNAI', 9894123555,'sing@gmail.com'),
    ('02','JK Stores', 'MUMBAI', 9940123450 ,'jks@yahoo.com'),
    ('03','ROSE BOOK STORE', 'TRIVANDRUM', 9444411222,'rose@gmail.com'),
    ('04','KAVARI STORE', 'DELHI', 8630001452,'kavi@redif.com'),
    ('05','EINSTEN BOOK GALLARY', 'US', 9542000001,'eingal@aol.com'),
    ('06','AKBAR STORE', 'MUMBAI',7855623100 ,'akbakst@aol.com');

```
SELECT * FROM `supplier_details`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 ∨   Filter rows: Search this table   Sort by key: None ∨

Extra options

			supplier_id	supplier_name	address	contact	email
☐	Edit	Copy	Delete	1	SINGAPORE SHOPPEE	CHENNAI	9894123555	sing@gmail.com
☐	Edit	Copy	Delete	2	JK Stores	MUMBAI	9940123450	jks@yahoo.com
☐	Edit	Copy	Delete	3	ROSE BOOK STORE	TRIVANDRUM	9444411222	rose@gmail.com
☐	Edit	Copy	Delete	4	KAVARI STORE	DELHI	8630001452	kavi@redif.com
☐	Edit	Copy	Delete	5	EINSTEN BOOK GALLARY	US	9542000001	eingal@aol.com
☐	Edit	Copy	Delete	6	AKBAR STORE	MUMBAI	7855623100	akbakst@aol.com

New
book stall
car_detail
information_schema
item
library
  New
  dept_of_books
  library_members
  supplier_details
mysql
performance_schema
phpmyadmin
student
test

4. books_holders

- Create table book_holders (holder_no int (10) primary key ,
  Sub_name varchar(30),
  Check_in_dt date,
  Books_id int,
  Members_id int,
  Foreign key Books_id references dept_of_books(sr_no),
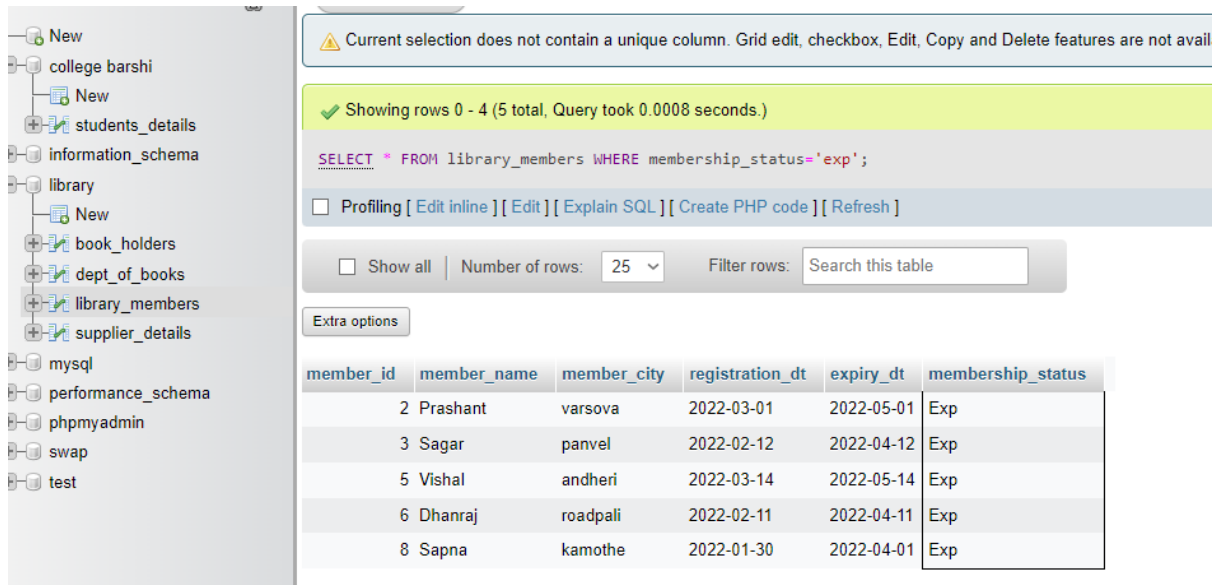 Foreign key Members_id references
library_members(members_id));

- INSERT INTO book_holders(holder_no, Sub_name, Check_in_dt, Books_id, Members_jd)
  VALUES ('01', 'philosphy', '2015-05-03', 5, 1,),
  ('02', 'physics', '2015-06-05',10,3),
  ('03', 'literature', '2015-04-01',15,6),
  ('04', 'English', '2015-08-06',3,9),
  ('05', 'sociolgy', '2015-04-03',12, 10);

				holder_no	Sub_name	Check_in_dt	books_id	members_id
☐	⬠ Edit	ᴣ፦ Copy	⊖ Delete	1	philosphy	2015-05-03	5	1
☐	⬠ Edit	ᴣ፦ Copy	⊖ Delete	2	physics	2015-06-05	10	3
☐	⬠ Edit	ᴣ፦ Copy	⊖ Delete	3	literature	2015-04-01	15	6
☐	⬠ Edit	ᴣ፦ Copy	⊖ Delete	4	English	2015-08-06	3	9
☐	⬠ Edit	ᴣ፦ Copy	⊖ Delete	5	sociolgy	2015-04-03	12	10

-: Query On Program Library :-
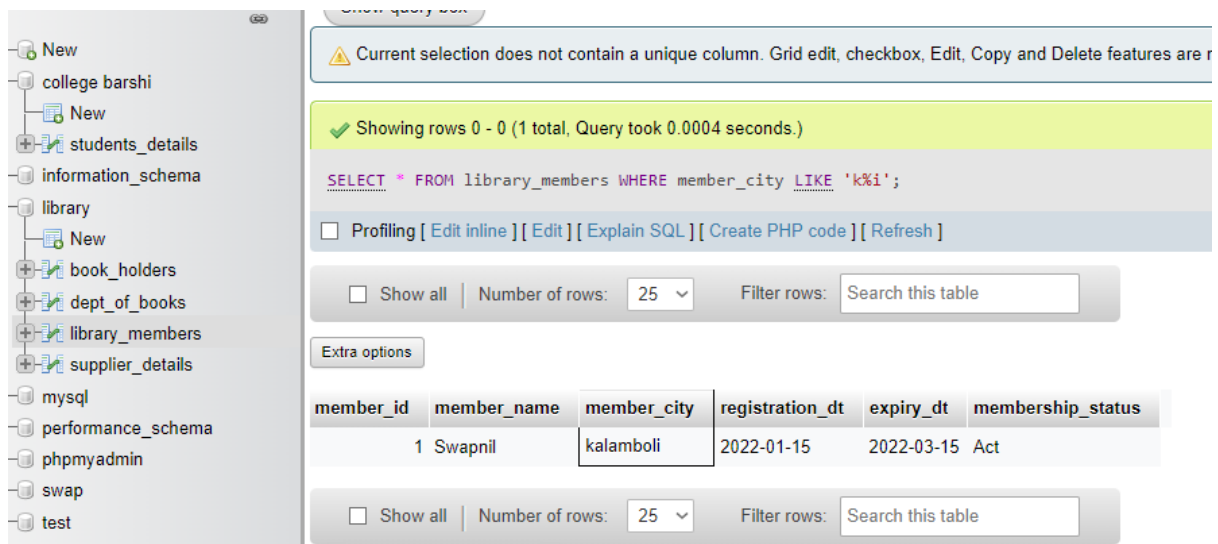
1.WAQ whos membership is expired.

2.WAQ to find which member city is initial letter is 'k' or end with 'i'

3.find subject name who's supplier is JK Stores.

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

SELECT * FROM supplier_details WHERE supplier_name='JK Stores';

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

Extra options

←T→		▼ supplier_id	supplier_name	address	contact	email
☐ 🖉 Edit ⨾ Copy ⊖ Delete		2	JK Stores	MUMBAI	9940123450	jks@yahoo.com

↑ ☐ Check all   With selected: 🖉 Edit ⨾ Copy ⊖ Delete 🖫 Export

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

4.Find the book no's of book which has book holder 'Ankita'

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

SELECT * FROM book_holders WHERE Holder_name='Ankita';

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

Extra options

←T→		▼ holder_no	Sub_name	Check_in_dt	Holder_name
☐ 🖉 Edit ⨾ Copy ⊖ Delete		1	philosphy	2015-05-03	Ankita

↑ ☐ Check all   With selected: 🖉 Edit ⨾ Copy ⊖ Delete 🖫 Export

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

Query results operations

5.find the supplier name email address which gave book has between 20 to 40.

```
1 SELECT supplier_details.supplier_name, supplier_details.email,
  supplier_details.address
2 FROM supplier_details RIGHT JOIN dept_of_books ON supplier_details.supplier_id
  = dept_of_books.supplier_id
3 WHERE books_nos BETWEEN 20 AND 40;
```

supplier_name	email	address
SINGAPORE SHOPPEE	sing@gmail.com	CHENNAI
ROSE BOOK STORE	rose@gmail.com	TRIVANDRUM
KAVARI STORE	kavi@redif.com	DELHI
AKBAR STORE	akbakst@aol.com	MUMBAI
SINGAPORE SHOPPEE	sing@gmail.com	CHENNAI
JK Stores	jks@yahoo.com	MUMBAI
KAVARI STORE	kavi@redif.com	DELHI
EINSTEN BOOK GALLARY	eingal@aol.com	US
JK Stores	jks@yahoo.com	MUMBAI
KAVARI STORE	kavi@redif.com	DELHI
EINSTEN BOOK GALLARY	eingal@aol.com	US
AKBAR STORE	akbakst@aol.com	MUMBAI
SINGAPORE SHOPPEE	sing@gmail.com	CHENNAI

6. find the expiry date of book holder of the physics book

```
1 SELECT library_members.member_name, library_members.expiry_dt
2 FROM library_members INNER JOIN book_holders ON library_members.member_id =
  book_holders.members_id
3 Where book_holders.Sub_name = "physics";
```

member_name	expiry_dt
Sagar	2022-04-12

7. Find the top 3rd book as per the book_nos.

```
1 SELECT sub_name, sr_no FROM `dept_of_books` ORDER BY books_nos DESC LIMIT 2,1;
```

←T→	▽	sub_name	sr_no
☐ 🖉 Edit ⯬ Copy ⊖ Delete		history	5

8. Find the books which are given by EINSTEN BOOK GALLARY.

```
1 SELECT dept_of_books.sr_no, dept_of_books.sub_name,
  supplier_details.supplier_name
2 FROM dept_of_books INNER JOIN supplier_details ON dept_of_books.supplier_id =
  supplier_details.supplier_id
3 WHERE supplier_details.supplier_name = "EINSTEN BOOK GALLARY";
```

sr_no	sub_name	supplier_name
5	history	EINSTEN BOOK GALLARY
11	political_sci	EINSTEN BOOK GALLARY
17	earth_sci	EINSTEN BOOK GALLARY

9. WAQ to find the literature book holders name .

```
1  SELECT library_members.member_name from library_members
2  INNER JOIN book_holders on library_members.member_id = book_holders.members_id
3  WHERE book_holders.Sub_name = "Literature"
```

member_name
Dhanraj

10. WAQ to find the suppliers form Mumbai and the subject supplied.

```
1  SELECT supplier_details.supplier_name, dept_of_books.sub_name
2  FROM supplier_details INNER JOIN dept_of_books on supplier_details.supplier_id = dept_of_books.supplier_id
3  WHERE supplier_details.address = "Mumbai"
```

supplier_name	sub_name
JK Stores	maths
JK Stores	performing_arts
JK Stores	sociolgy
AKBAR STORE	lang_&_injustice
AKBAR STORE	economics
AKBAR STORE	life_sci