SARAM

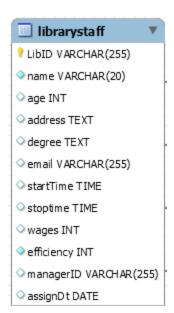
PRESENTING MY DATABASE FOR

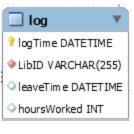
- - -- LIBRARY MANAGEMENT SYSTEMS-- - -



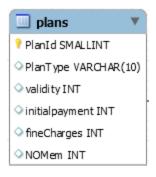


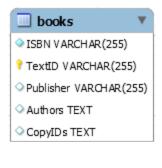
Relational Database Schemas:

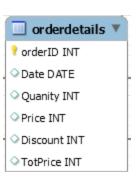


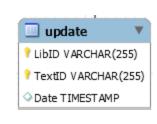


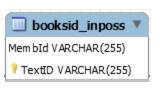


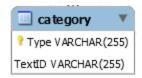


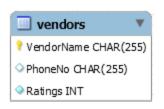


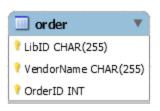


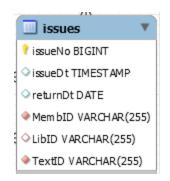


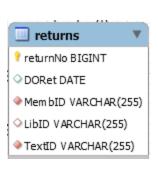




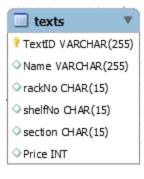


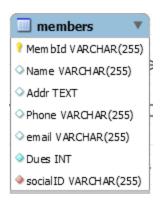


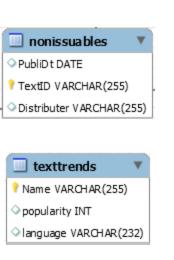














Populated database

librarystaff

LibID 🔺	name	age	address	degree	email	startTime	stoptime	wages	efficiency	managerID	assignDt
booker 12	Rachel Booker	25	wall street	M.Sc	rachel@bigli	09:00:00	12:30:00	25000	5	booker 12	2008-10-29
grey07	Laura Grey	21	AB Lane	NULL	laura@biglib	07:30:00	09:30:00	10000	2	booker 12	2008-10-30
guppi 10	Tom Guppi	20	six cross avenue	NULL	tommy@bigli	20:00:00	22:00:00	7000	1	Jenkins46	2011-06-02
harry6	Harry Parker	20	tesla complex	NULL	parker@bigli	18:00:00	19:00:00	6000	1	Jenkins46	2011-01-16
jack759	Jack Sparrow	19	bell street	NULL	jsp@biglib.com	17:00:00	18:00:00	6000	0	Jenkins46	2011-01-16
Jenkins46	Mary Jenkins	24	Park avenue	B.Sc	jenkins@bigli	18:00:00	20:00:00	25500	5	Jenkins46	2008-10-30
john99	John Hopkins	22	white avenue	NULL	hops@biglib	15:00:00	16:00:00	6000	0	booker 12	2010-01-02
Johnson81	Craig Johnson	19	esplanade	NULL	craig@biglib	12:00:00	15:00:00	12000	3	booker 12	2008-11-05
oscar20	Oscar Wilde	20	square road	NULL	wil@biglib.com	19:00:00	20:00:00	6000	1	Jenkins46	2011-05-25
smith 79	Jamie Smith	17	baker street	NULL	jamie@biglib	19:30:00	22:00:00	11900	4	Jenkins46	2008-11-01
william87	Black William	15	sarat lane	10+	black@biglib	16:00:00	17:00:00	6000	0	Jenkins46	2010-05-15

booksid_inposs

`	MembId	TextID
	azhar6399	b602
	chitra6358	b603
	jawahar3216	b604
	kiran3026	b605
	mukti6589	b606
	jawahar3216	b607
	azhar6399	b608
	jawahar3216	b609
	surya3657	b610
	varun4689	b611

membership.

5	AadharNo	date	LibID	ifBanned	planchosen
	1102 3526 4789	2010-05-02	booker 12	NULL	1102
	1235 8457 3669	2009-05-25	Johnson81	NULL	1103
	1552 4586 3265	2009-02-19	grey07	NULL	1102
	2555 8754 9653	2008-11-20	booker 12	NULL	1105
	3665 4887 5998	2010-07-13	grey07	NULL	1102
	4557 2336 9445	2008-11-25	Jenkins46	NULL	1103
	4578 3215 6694	2009-11-20	grey07	NULL	1105
	7754 8552 6334	2008-11-20	booker 12	NULL	1101
	8511 2005 9860	2010-07-15	Jenkins46	NULL	1104
	9456 6621 7432	2008-12-06	booker 12	NULL	1106

members

3	MembId	Name	Addr	Phone	email	Dues	socialID
	azhar6399	Jayshree Azhar Nadig	49, Sa	003 04989	jayanag9@g	0	4578 3215 6694
	chitra6358	Chitra Peri	65, Him	0280 0861	NULL	0	4557 2336 9445
	jawahar3216	Jawahar Kumar Bhar	10, Rad	+91 376 3	kumarj8@gma	0	2555 8754 9653
	kiran3026	Kiran Majumdar	82, Bha	029 49059	kiranm@hotm	16	8511 2005 9860
	mukti6589	Mukti Mistry	53, Rup	+91 447 7	mm45@gmail	0	1552 4586 3265
	nair9870	Harbhajan Nair	79, Go	+91 343 2	vaiguru11@g	23	9456 6621 7432
	namita5687	Namita Mustafa Din	69, Nas	+91 75 50	mustafanam	0	1235 8457 3669
	sapna2007	Sapna Kumer	88, Din	021 07934	NULL	6	7754 8552 6334
	surya3657	Surya Ram Saha	71, Kus	+91 58 29	ramsurya8@y	0	3665 4887 5998
	varun4689	Varun Bhai Rao	11, Ma	+91 115 9	varun4@gmail	136	1102 3526 4789



texts

T		1	1 100		
TextID	Name	rackNo	shelfNo	section	Price
A16	First Principles: Elon Musk on the Power of Thinking for Yourself	2	alpha	A-W	105
A17	Entropy:Why Life Always Seems To Get Complicated	9	delta	A-X	98
A18	The Paradox of Behavior Change	1	beta	A-W	57
A19	Inside the Mind of a Mad Scientist	4	beta	A-Y	79
A20	The Myth of Creative Inspiration	6	gamma	A-X	48
b602	The Hunger Games	4	alpha	N-C	759
b603	Harry Potter and the Sorcerer's Stone	5	alpha	N-C	699
b604	Twilight	5	alpha	N-C	399
b605	To Kill a Mockingbird	5	gamma	N-C	675
b606	The Great Gatsby	4	gamma	N-C	435
b607	The Fault in Our Stars	6	beta	N-C	624
b608	The Hobbit	4	alpha	N-C	458
b609	The Catcher in the Rye	5	beta	N-C	354
b610	Angels & Demons	6	beta	N-C	819
b611	Pride and Prejudice	4	gamma	N-C	350
M104	Forbes	5	gamma	M-A	295
M203	Business today	6	delta	M-A	109
M305	India Today	8	alpha	M-A	356
M405	Digit	3	gamma	M-C	409
M509	Sportstar	4	delta	M-S	209

books

S	ISBN	TextID	Publisher	Authors	CopyIDs
	439023483	b602	Penguin Random House	Suzanne Collins	0
	439554934	b603	HarperCollins	J.K. Rowling,	0
	316015849	b604	Macmillan Publishers	Stephenie Me	0
	61120081	b605	Simon & Schuster	Harper Lee	0
	743273567	b606	O'Reilly	F. Scott Fitzg	1
	525478817	b607	Rupa	John Green	0
	618260307	b608	Wiley	J.R.R. Tolkien	0
	316769177	b609	Orient Blackswan	J.D. Salinger	2
	1416524797	b610	Wiley	Dan Brown	2
	679783261	b611	Rupa	Jane Austen	0

category

Туре	TextID			
article	A16	-1		
nspirational	A16	drama	b602	
article	A17	novel	b602	
philosophy	A17	science fict	b602	
article	A18	fantasy	b603	
oshycology	A18	novel	b603	
article	A19	comedy	b604	mystery
science	A19	fantasy	b604	novel
article	A20	horror	b604	thriller fiction
reative	A20	novel	b604	novel
action	b602	action	b605	romance
Irama	b602	gothic	b605	business
ovel	b602	novel	b605	magazine
cience fict	b602	novel	b606	politics
antasy	b603	tragedy	b606	business
ovel	b603	novel	b607	magazine
omedy	b604	realistic fict	b607	news
antasy	b604	fantasy	b608	magazine
orror	b604	novel	b608	technology
novel	b604	novel	b609	magazine
action	b605	realistic fict	b609	sports

nonissuables

	PubliDt	TextID	Distributer
	2017-11-13	A16	McGraw-Hill Education
	2017-05-05	A17	Pearson
	2017-02-06	A18	Scholastic
	2015-05-05	A19	Cengage
	2014-02-27	A20	Klett
	2011-02-28	M104	NULL
	2012-08-16	M203	NULL
	2011-06-15	M305	NULL
	2010-10-10	M405	NULL
	2013-12-25	M509	NULL
7			



issues

issueNo	issueDt	returnDt	MembID	LibID	TextID
1195	2020-04-15 0	2020-05-22	varun4689	grey07	b602
1196	2020-04-14 0	2020-05-21	surya3657	booker 12	b603
1197	2020-04-16 1	2020-05-23	mukti6589	Johnson81	b604
1198	2020-04-15 1	2020-05-22	kiran3026	john99	b605
1199	2020-04-13 1	2020-05-20	jawahar3	william87	b606
1200	2020-04-14 1	2020-05-21	sapna2007	jack759	b607
1201	2020-04-14 1	2020-05-21	azhar6399	Jenkins46	b608
1202	2020-04-13 1	2020-05-20	namita5687	harry6	b609
1203	2020-04-12 1	2020-05-19	chitra6358	oscar20	b610
1204	2020-04-14 1	2020-05-21	nair9870	smith 79	b611
1205	2020-05-05 0	2020-05-12	azhar6399	grey07	b602
1206	2020-05-05 0	2020-05-12	chitra6358	booker 12	b603
1207	2020-05-05 1	2020-05-12	jawahar3	Johnson81	b604
1208	2020-05-05 1	2020-05-12	kiran3026	john99	b605
1209	2020-05-05 1	2020-05-12	mukti6589	william87	b606
1210	2020-05-05 1	2020-05-12	jawahar3	jack759	b607
1211	2020-05-05 1	2020-05-12	azhar6399	Jenkins46	b608
1212	2020-05-05 1	2020-05-12	surya3657	oscar20	b610
1213	2020-05-05 1	2020-05-12	varun4689	smith 79	b611

returns

S	returnNo	DORet	MembID	LibID	TextID
	10195	2020-05-22	varun4689	grey07	b602
	10196	2020-05-24	surya3657	booker 12	b603
	10197	2020-05-25	mukti6589	Johnson81	b604
	10198	2020-05-22	kiran3026	john99	b605
	10199	2020-05-21	jawahar3216	william87	b606
	10200	2020-05-21	sapna2007	jack759	b607
	10201	2020-05-25	azhar6399	Jenkins46	b608
	10202	2020-05-25	namita5687	harry6	b609
	10203	2020-05-19	chitra6358	oscar20	b610
	10204	2020-05-27	nair9870	smith 79	b611

textsTrends

Name	popularity	language
Angels & Demons	8	eng-CA
Business today	7	eng
Digit	9	eng
Entropy:Why Life Always Seems To Get Complic	6	eng
First Principles: Elon Musk on the Power of Think	8	eng
Forbes	8	eng
Harry Potter and the Sorcerer's Stone	8	eng-US
India Today	6	eng
Inside the Mind of a Mad Scientist	7	eng
Pride and Prejudice	5	eng
Sportstar	9	eng
The Catcher in the Rye	7	eng
The Fault in Our Stars	9	eng
The Great Gatsby	4	eng
The Hobbit	9	eng-US
The Hunger Games	6	eng
The Myth of Creative Inspiration	2	eng
The Paradox of Behavior Change	5	eng
To Kill a Mockingbird	8	eng
Twilight	8	eng

plans

PlanId	PlanType	validity	initialpayment	fineCharges	NOMem
1100	temp	0	200	100	NULL
1101	basic	1	100	10	NULL
1102	bronze	3	110	7	NULL
1103	silver	4	130	5	NULL
1104	gold	5	150	3	NULL
1105	platinum	7	180	2	NULL
1106	diamond	10	200	1	NULL



vendors

VendorName	PhoneNo	Ratings
Ananda Publishers	033 2241 9672	4
Bablu Book Stall	098741 22867	6
Genius Book Centre	089613 33111	7
India Book Distributors	033 2257 0466	5
Mohan Book Suppliers	092316 11529	6
Nandan Store	094322 10127	8
Rama Book Stores	NULL	0
Standard Book Depot	099031 48363	9
Vikas Book Store	098307 13767	3
Yavanshi Book Shop	033 2641 4114	4
	Ananda Publishers Bablu Book Stall Genius Book Centre India Book Distributors Mohan Book Suppliers Nandan Store Rama Book Stores Standard Book Depot Vikas Book Store	Ananda Publishers 033 2241 9672 Bablu Book Stall 098741 22867 Genius Book Centre 089613 33111 India Book Distributors 033 2257 0466 Mohan Book Suppliers 092316 11529 Nandan Store 094322 10127 Rama Book Stores Standard Book Depot 099031 48363 Vikas Book Store 098307 13767

order

LibID	VendorName	OrderID
booker 12	Standard Book Depot	2337
grey07	Genius Book Centre	2338
harry6	Vikas Book Store	2339
jack759	Nandan Store	2340
Jenkins46	Standard Book Depot	2341
john99	Ananda Publishers	2342
Johnson81	Yavanshi Book Shop	2343
oscar20	Yavanshi Book Shop	2344
smith 79	Genius Book Centre	2345
william87	Nandan Store	2336
william87	Nandan Store	2346

orderdetails

orderID	Date	Quanity	Price	Discount	TotPrice
2336	2017-05-08	6	536	3	3120
2337	2017-05-09	8	350	8	2716
2338	2017-05-18	2	200	10	388
2339	2017-05-17	3	356	5	1036
2340	2017-05-17	4	158	6	613
2341	2017-05-17	1	965	3	936
2342	2017-05-18	2	1003	8	1946
2343	2017-05-18	6	365	9	2124
2344	2017-05-20	5	521	4	2527
2345	2017-05-25	6	348	6	2025
2346	2017-05-25	1	562	7	545

update

.	LibID	TextID	Date
	grey07	A17	2008-10-30 00:00:00
	grey07	b609	2008-10-30 00:00:00
	harry6	b605	2011-01-16 00:00:00
	jack759	M405	2011-01-16 00:00:00
	Jenkin	b606	2008-10-30 00:00:00
	john99	b605	2010-01-02 00:00:00
	Johnso	A16	2008-11-05 00:00:00
	Johnso	b608	2008-11-05 00:00:00
	oscar20	b611	2011-05-25 00:00:00
	oscar20	M104	2011-05-25 00:00:00
	oscar20	M509	2011-05-25 00:00:00
	smith 79	b610	2008-11-01 00:00:00
	william87	A20	2010-05-15 00:00:00

log

logTime	LibID	leaveTime	hoursWorked
2020-05-05 07:39:05	grey07	2020-05-05 09:28:48	1
2020-05-05 09:06:00	booker 12	2020-05-05 12:20:35	3
2020-05-05 12:45:24	Johnson81	2020-05-05 15:36:17	2
2020-05-05 15:32:24	john99	2020-05-05 16:18:34	0
2020-05-05 16:20:03	william87	2020-05-05 17:05:07	0
2020-05-05 17:55:08	jack759	2020-05-05 18:30:16	0
2020-05-05 18:11:36	Jenkins46	2020-05-05 20:36:16	2
2020-05-05 18:15:28	harry6	2020-05-05 19:10:15	0
2020-05-05 19:08:59	oscar20	2020-05-05 20:35:48	1
2020-05-05 19:33:52	smith 79	2020-05-05 22:12:57	2
2020-05-05 20:05:00	guppi 10	2020-05-05 22:03:45	1

finegen

1	PaidBy	returnNo	latency	amount	ifPaid
	azhar6399	10201	4	8	1
	chitra6358	10203	0	0	1
	jawahar3216	10199	1	2	1
	kiran3026	10198	0	0	1
	mukti6589	10197	2	14	1
	nair9870	10204	6	6	1
	namita5687	10202	5	25	1
	sapna2007	10200	0	0	1
	surya3657	10196	3	21	1
	varun4689	10195	0	0	1



Querying my Database....



Query 1 : Retrieving details of the members.

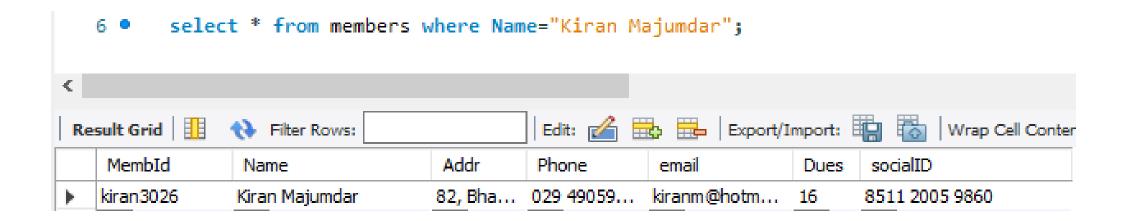
Using : SELECT and *.

	6 • select * from members;							
1	Result Grid 🔢 \infty Filter Rows: Edit: 🚣 🖶 Export/Import: 🖫 🐻 Wrap C							
	MembId	Name	Addr	Phone	email	Dues	socialID	
)	azhar6399	Jayshree Azhar Nadig	49, Sa	003 04989	jayanag9@g	0	4578 3215 6694	
	chitra6358	Chitra Peri	65, Him	0280 0861	NULL	0	4557 2336 9445	
	jawahar3216	Jawahar Kumar Bhar	10, Rad	+91 376 3	kumarj8@gma	0	2555 8754 9653	
	kiran3026	Kiran Majumdar	82, Bha	029 49059	kiranm@hotm	16	8511 2005 9860	
	mukti6589	Mukti Mistry	53, Rup	+91 447 7	mm45@gmail	0	1552 4586 3265	
	nair9870	Harbhajan Nair	79, Go	+91 343 2	vaiguru 11@g	23	9456 6621 7432	
	namita5687	Namita Mustafa Din	69, Nas	+91 75 50	mustafanam	0	1235 8457 3669	
	sapna2007	Sapna Kumer	88, Din	021 07934	NULL	6	7754 8552 6334	
	surya3657	Surya Ram Saha	71, Kus	+91 58 29	ramsurya8@y	0	3665 4887 5998	
	varun4689	Varun Bhai Rao	11, Ma	+91 115 9	varun4@gmail	136	1102 3526 4789	



Query 2 : Retrieving details of Kiran.

Using : SELECT-FROM-WHERE clause

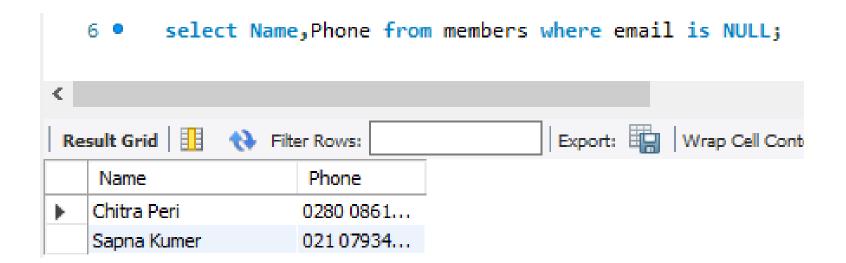




Query 3 : Displaying name and phone no. of member who cannot be

emailed.

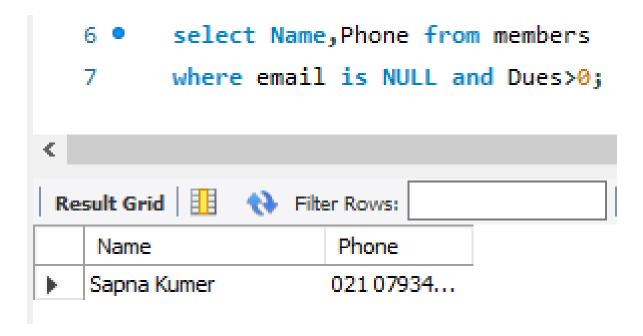
Using : Project-SELECT and IS operator.





Query 4 : Displaying names and Phone No.s who cannot be email and has dues.

Using : AND operator.





Query 5 : Displaying names of members, their chosen plan, and staff who did their

registration.

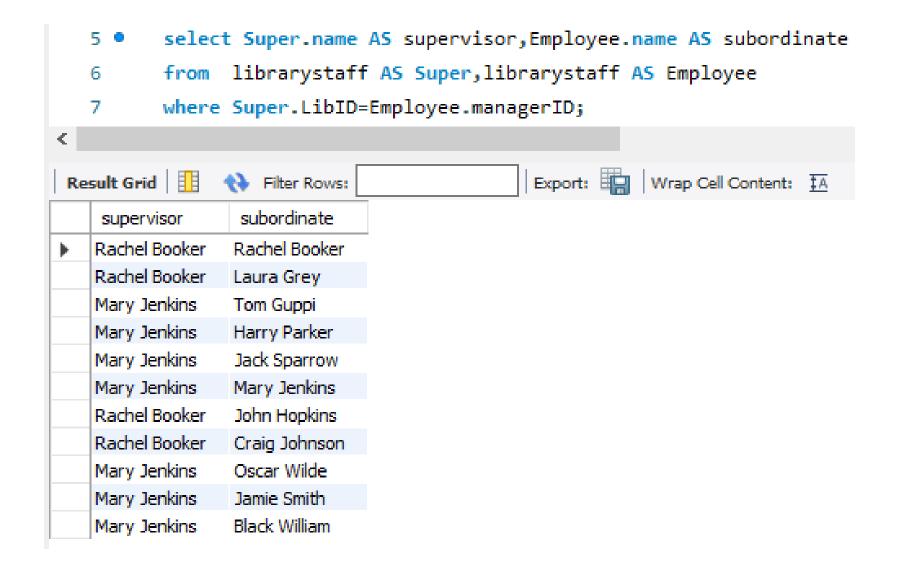
Using : SELECT-PROJECT-JOIN.

	<pre>5 • select Name, planchosen, LibID 6 from members, membership 7 where socialID=AadharNo;</pre>						
<	1						
Re	esult Grid 🔡 🙌 Filb	er Rows:					
	Name	planchosen	LibID				
>	Jayshree Azhar Nadig	1105	grey07				
	Chitra Peri	1103	Jenkins46				
	Jawahar Kumar Bhar	1105	booker 12				
	Kiran Majumdar	1104	Jenkins46				
	Mukti Mistry	1102	grey07				
	Harbhajan Nair	1106	booker 12				
	Namita Mustafa Din	1103	Johnson81				
	Sapna Kumer	1101	booker 12				
	Surya Ram Saha	1102	grey07				
	Varun Bhai Rao	1102	booker 12				



Query 6 : Displaying supervisors and their respective subordinates. Using

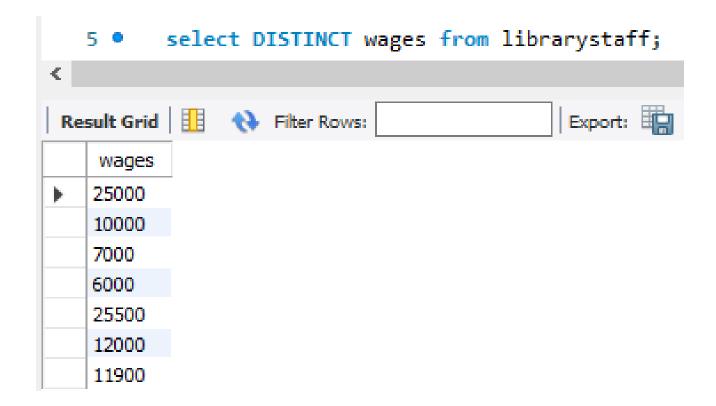
: Aliases by AS keyword.





Query 7 : Categorizing salaries of library staff.

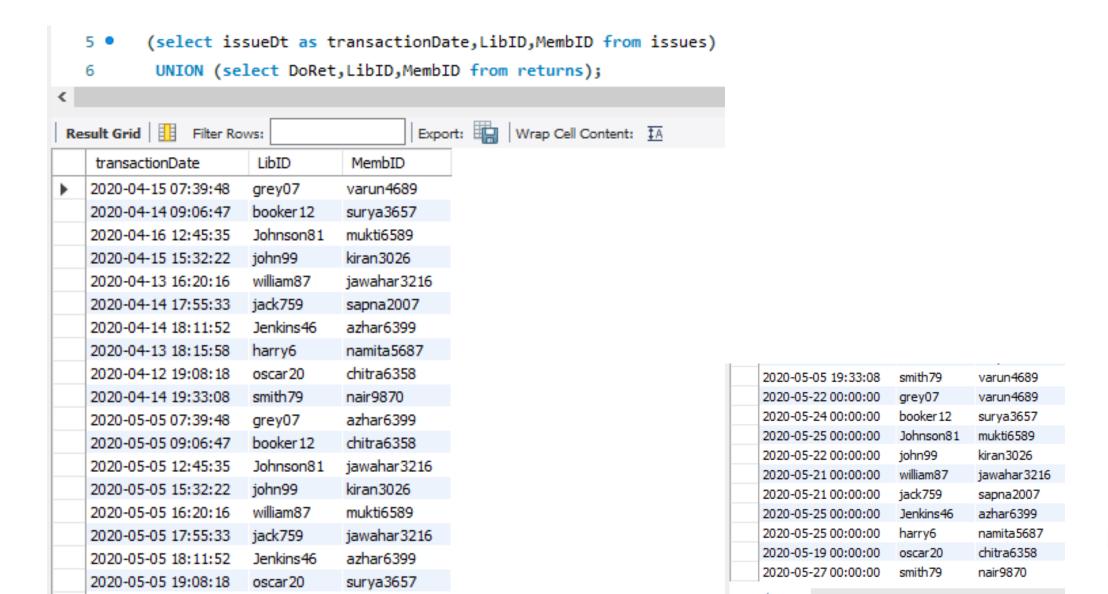
Using : DISTINCT keyword.





Query 8 : Displaying all issue and return Transaction details of our library.

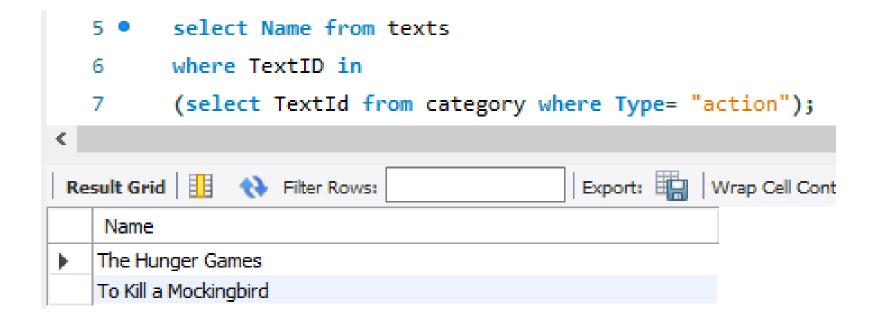
Using : UNION.





Query 9 : Displaying books from action category.

Using : IN operator, a Nested Query(Uncorrelated).

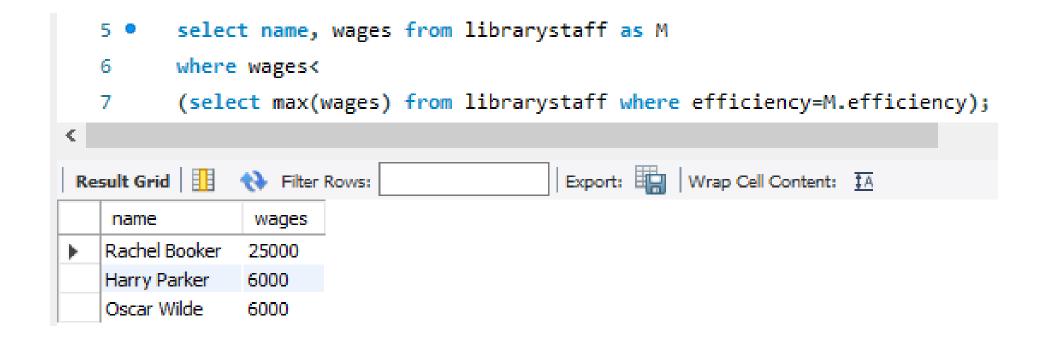




Query 10: Displaying the names of the staff whose salary is less than a staff of same

efficiency.

Using : Correlated Nested Query.

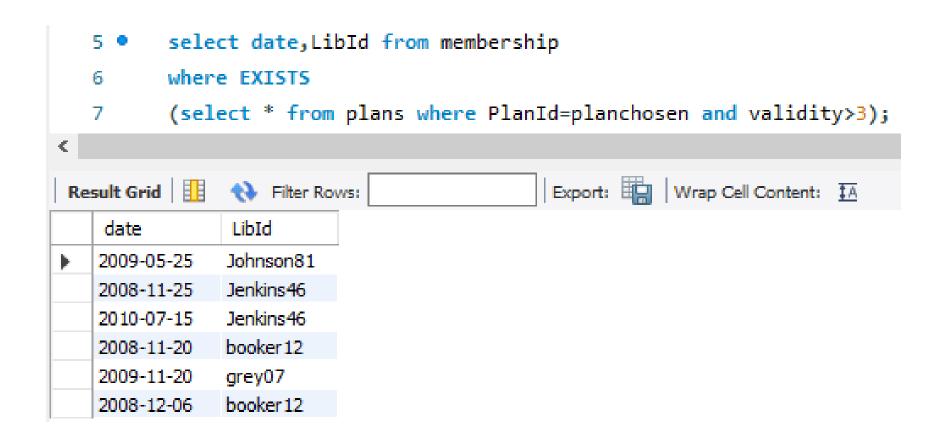




Query 11: Displaying names of the staff who was able to registered member for a costly

membership and along with the date.

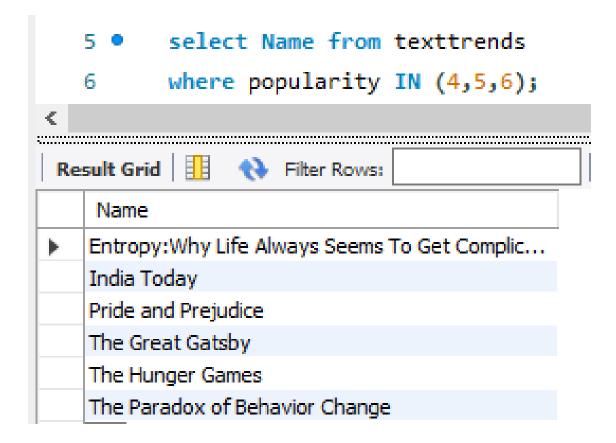
Using : EXISTS.





Query 12 : Displaying names of the Text with average Popularity.

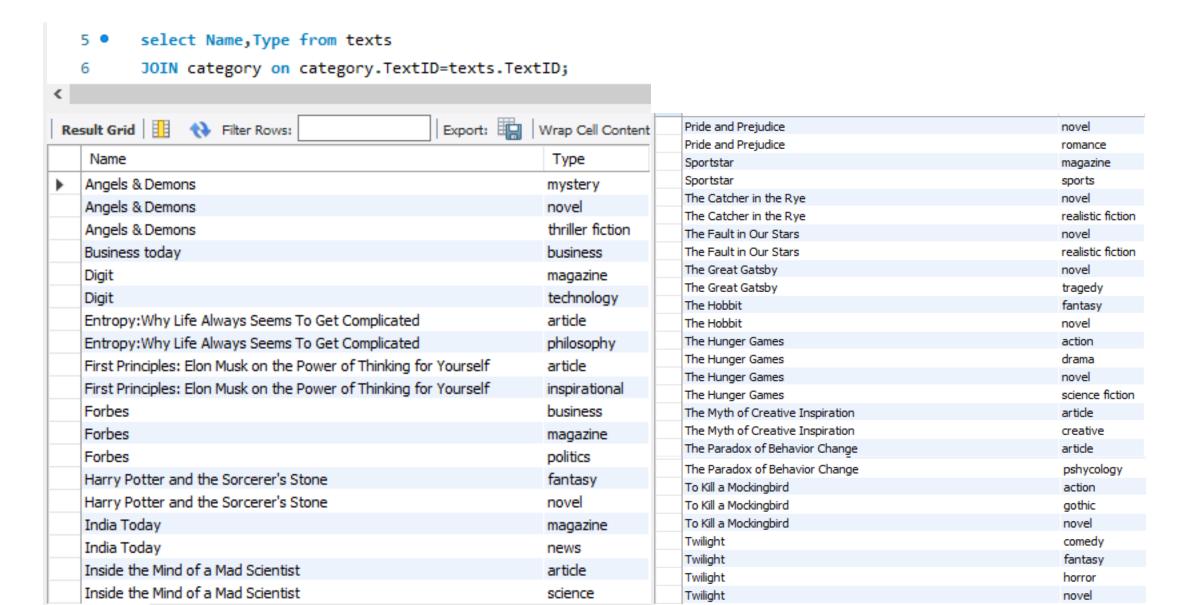
Using : IN.





Query 13: Displaying names of Text and its categories.

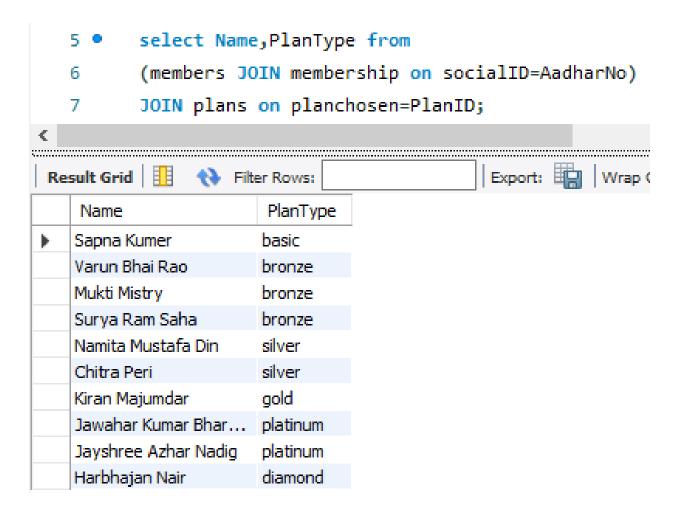
Using : JOIN.





Query 14 : Displaying Members and their Plan Type.

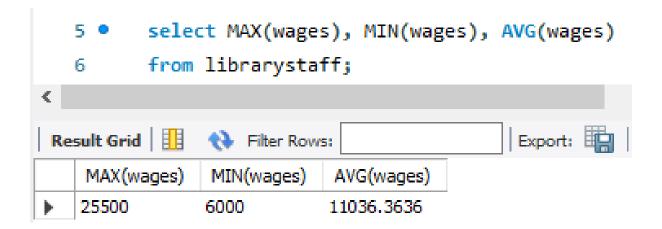
Using : multiple JOIN.





Query 15: Displaying Maximum, Minimum and Average salary of Library staffs.

Using : MAX, MIN, AVG function.

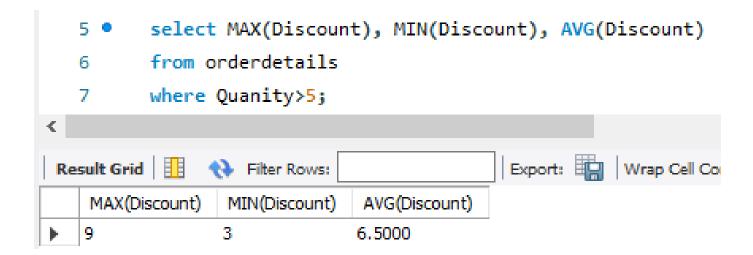




Query 16: Displaying maximum, minimum, average discount received while ordering

more than 5 quantity.

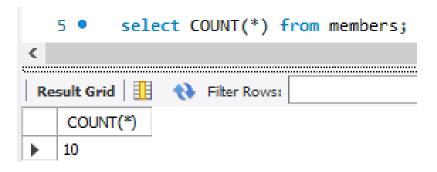
Using : MAX, MIN, AVG function and WHERE clause.





Query 17: Displaying Total no. of members in the Library

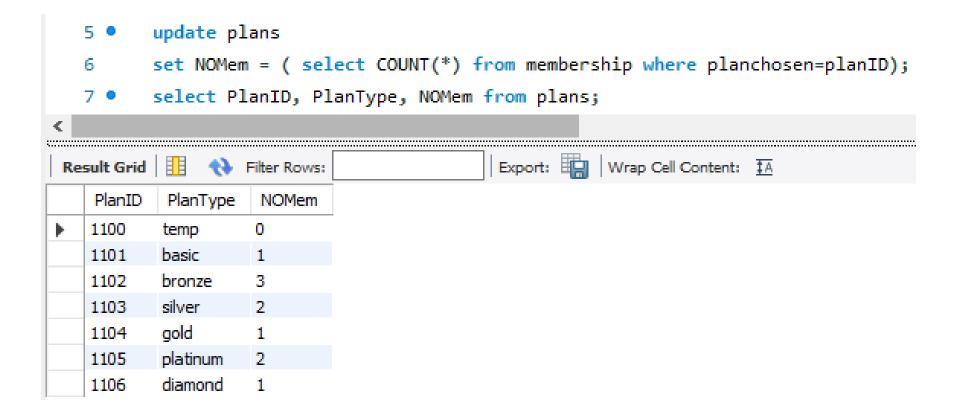
Using : COUNT function.





Query 18: Finding no. of members registered for each plan.

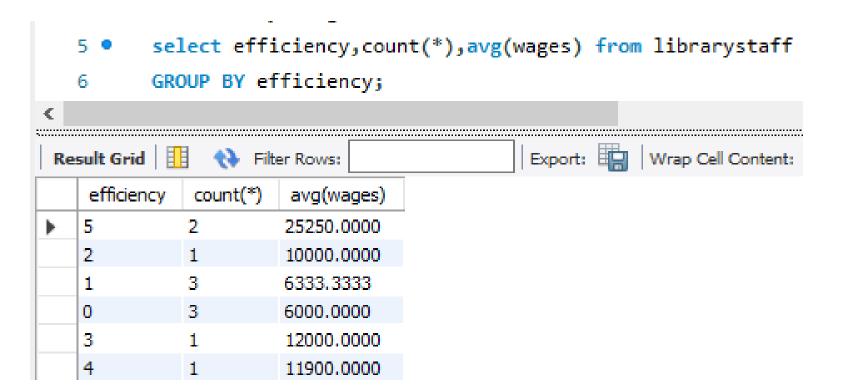
Using : COUNT function and WHERE clause for join operation.





Query 19: Categorizing staffs according to their Efficiency.

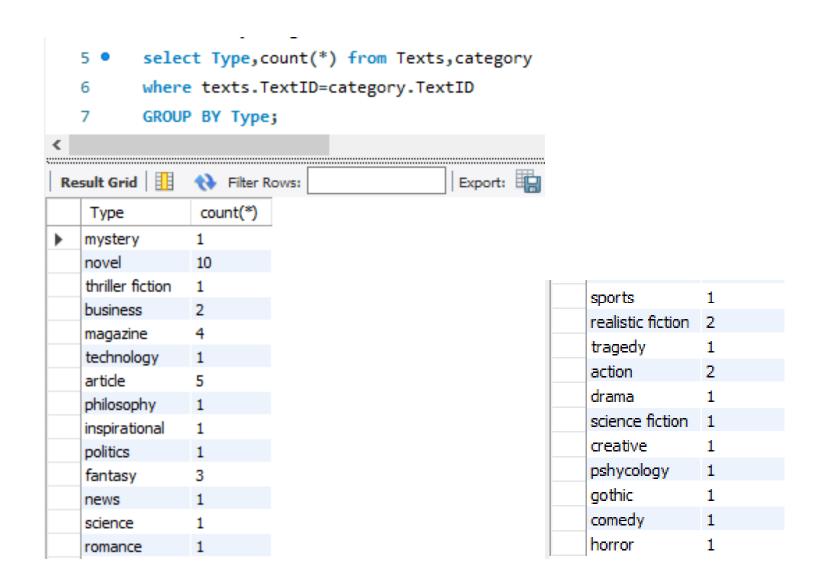
Using : GROUP BY.





Query 20 : Counting Texts of each category.

Using : GROUP BY and join condition.





Query 21 : Listing the Vendor Names who provided more than 10% discount till date.

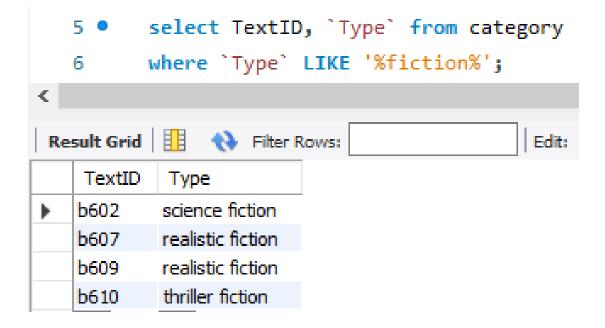
Using : HAVING along with group by and join operation.

```
select VendorName,sum(Discount) from `order`, orderdetails
         where `order`.OrderID=orderdetails.OrderID
         GROUP BY VendorName
         HAVING sum(Discount)>10;
  8
                                             Export: Wrap Cell Content: IA
Result Grid
               Filter Rows:
   VendorName
                      sum(Discount)
  Standard Book Depot
                     11
  Genius Book Centre
                      16
  Nandan Store
                      16
  Yavanshi Book Shop
                      13
```



Query 22 : Listing IDs of all fiction type books.

Using : LIKE & % for string comparison.





Query 23: Listing Name and Location of Texts available in block M.

Using : LIKE & _ for string comparison.

	5 • se	select Name, rackNo, shelfNo, section from texts						
	6 wh	6 where section LIKE 'M';						
<								
Re	esult Grid	Filter Ro	ws:		Expo	rt: 📳 Wrap '		
	Name		rackNo	shelfNo	section			
)	Forbes		5	gamma	M-A	•		
	Business too	day	6	delta	M-A			
	India Today	r	8	alpha	M-A			
	Digit		3	gamma	M-C			
	Sportstar		4	delta	M-S			



Query 24 : Generate Discount Amount for all orders.

Using : Mathematical operators *,/.

	5 • s	elect or	derID,	Quanity	, Price, Discount, (Discount/100)*Quanity*Price
	6 f	rom orde	rdetai	ls;	
<					
Re	esult Grid	(4)	Filter Rov	/s:	Export: Wrap Cell Content: TA
	orderID	Quanity	Price	Discount	(Discount/100)*Quanity*Price
•	2336	6	536	3	96.4800
	2337	8	350	8	224.0000
	2338	2	200	10	40.0000
	2339	3	356	5	53.4000
	2340	4	158	6	37.9200
	2341	1	965	3	28.9500
	2342	2	1003	8	160.4800
	2343	6	365	9	197.1000
	2344	5	521	4	104.2000
	2345	6	348	6	125.2800
	2346	1	562	7	39.3400



Query 25 : Arranging texts by popularity.

Using : ORDER BY & DESC.

- 5 select Name, popularity from texttrends
- 6 ORDER BY popularity DESC;

<		
Re	sult Grid	Edit:
	Name	popularity
)	Digit	9
	Sportstar	9
	The Fault in Our Stars	9
	The Hobbit	9
	Angels & Demons	8
	First Principles: Elon Musk on the Power of Think	8
	Forbes	8
	Harry Potter and the Sorcerer's Stone	8
	To Kill a Mockingbird	8
	Twilight	8
	Business today	7
	Inside the Mind of a Mad Scientist	7
	The Catcher in the Rye	7
	Entropy:Why Life Always Seems To Get Complic	6
	India Today	6
	The Hunger Games	6
	Pride and Prejudice	5
	The Paradox of Behavior Change	5
	The Great Gatsby	4
	The Myth of Creative Inspiration	2



Thank You

jai sai ram

