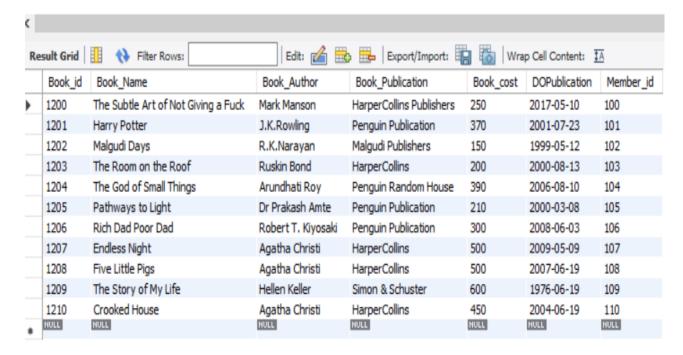ASSIGNMENT2

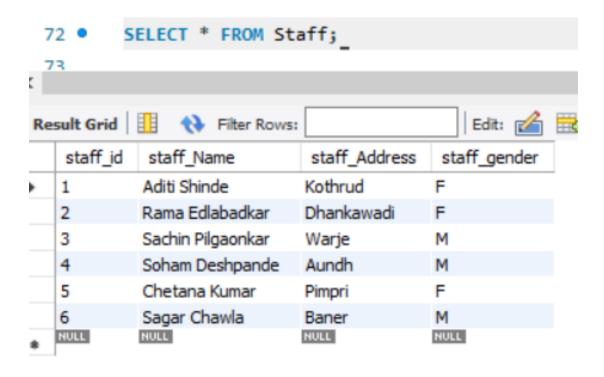## 1.Display Books,Members and Staff tables
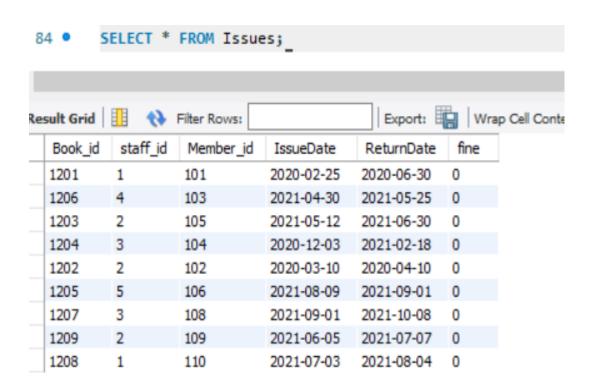
SELECT * FROM Members;

Member_id	Member_Name	Member_Address	Member_PhoneNo
100	Madhura	Padmavati	8967564567
101	Ahana	VimanNagar	8757979078
103	Pallavi	KalyaniNagar	7867564567
105	Aarya	Delhi	6876890890
106	Rasika	FCRoad	7879789876
107	Sanika	Sahakar Nagar	7867564534
108	Pratham	Pawai	8756789087
109	Rajesh	Dadar	9898768678
110	Sahil	Navi Mumbai	7654568968
111	Rudr	ShivajiNagar	9867897867
112	Ridhi	Katraj	9865345678
NULL	NULL	NULL	NULL

64 ● SELECT * FROM Books;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1200	The Subtle Art of Not Giving a Fuck	Mark Manson	HarperCollins Publishers	250	2017-05-10	100
1201	Harry Potter	J.K.Rowling	Penguin Publication	370	2001-07-23	101
1202	Malgudi Days	R.K.Narayan	Malgudi Publishers	150	1999-05-12	102
1203	The Room on the Roof	Ruskin Bond	HarperCollins	200	2000-08-13	103
1204	The God of Small Things	Arundhati Roy	Penguin Random House	390	2006-08-10	104
1205	Pathways to Light	Dr Prakash Amte	Penguin Publication	210	2000-03-08	105
1206	Rich Dad Poor Dad	Robert T. Kiyosaki	Penguin Publication	300	2008-06-03	106
1207	Endless Night	Agatha Christi	HarperCollins	500	2009-05-09	107
1208	Five Little Pigs	Agatha Christi	HarperCollins	500	2007-06-19	108
1209	The Story of My Life	Hellen Keller	Simon & Schuster	600	1976-06-19	109
1210	Crooked House	Agatha Christi	HarperCollins	450	2004-06-19	110
NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
72 •      SELECT * FROM Staff;
73
```

Result Grid | Filter Rows: | Edit:

staff_id	staff_Name	staff_Address	staff_gender
1	Aditi Shinde	Kothrud	F
2	Rama Edlabadkar	Dhankawadi	F
3	Sachin Pilgaonkar	Warje	M
4	Soham Deshpande	Aundh	M
5	Chetana Kumar	Pimpri	F
6	Sagar Chawla	Baner	M
NULL	NULL	NULL	NULL

```
84 •      SELECT * FROM Issues;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

Book_id	staff_id	Member_id	IssueDate	ReturnDate	fine
1201	1	101	2020-02-25	2020-06-30	0
1206	4	103	2021-04-30	2021-05-25	0
1203	2	105	2021-05-12	2021-06-30	0
1204	3	104	2020-12-03	2021-02-18	0
1202	2	102	2020-03-10	2020-04-10	0
1205	5	106	2021-08-09	2021-09-01	0
1207	3	108	2021-09-01	2021-10-08	0
1209	2	109	2021-06-05	2021-07-07	0
1208	1	110	2021-07-03	2021-08-04	0

2. Display names of all the books along with their author.

SELECT Book_Name,Book_Author FROM Books;

Book_Name	Book_Author
The Subtle Art of Not Giving a Fuck	Mark Manson
Harry Potter	J.K.Rowling
Malgudi Days	R.K.Narayan
The Room on the Roof	Ruskin Bond
The God of Small Things	Arundhati Roy
Pathways to Light	Dr Prakash Amte
Rich Dad Poor Dad	Robert T. Kiyosaki
Endless Night	Agatha Christi
Five Little Pigs	Agatha Christi
The Story of My Life	Hellen Keller
Crooked House	Agatha Christi

3. Display all books published by HarperCollins publications.

SELECT * FROM Books WHERE Book_Publication LIKE 'HarperCollins';

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1203	The Room on the Roof	Ruskin Bond	HarperCollins	200	2000-08-13	103
1207	Endless Night	Agatha Christi	HarperCollins	500	2009-05-09	107
1208	Five Little Pigs	Agatha Christi	HarperCollins	500	2007-06-19	108
1210	Crooked House	Agatha Christi	HarperCollins	450	2004-06-19	110
NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. Display all books of the member id 110

SELECT * FROM Books WHERE Member_id=110;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1210	Crooked House	Agatha Christi	HarperCollins	450	2004-06-19	110
NULL	NULL	NULL	NULL	NULL	NULL	NULL

5. Display books information in following order bookname, bookcost, bookpub,Dopub

SELECT Book_Name,Book_cost,Book_Publication,DOPublication FROM Books;

Book_Name	Book_cost	Book_Publication	DOPublication
The Subtle Art of Not Giving a Fuck	250	HarperCollins Publishers	2017-05-10
Harry Potter	370	Penguin Publication	2001-07-23
Malgudi Days	150	Malgudi Publishers	1999-05-12
The Room on the Roof	200	HarperCollins	2000-08-13
The God of Small Things	390	Penguin Random House	2006-08-10
Pathways to Light	210	Penguin Publication	2000-03-08
Rich Dad Poor Dad	300	Penguin Publication	2008-06-03
Endless Night	500	HarperCollins	2009-05-09
Five Little Pigs	500	HarperCollins	2007-06-19
The Story of My Life	600	Simon & Schuster	1976-06-19
Crooked House	450	HarperCollins	2004-06-19

6. Display all members living in Baner.

SELECT * FROM Members WHERE Member_Address LIKE "Baner";

Member_id	Member_Name	Member_Address	Member_PhoneNo
102	Sneha	Baner	8978676578
NULL	NULL	NULL	NULL

7.Write a command to remove member "Sneha".

SET SQL_SAFE_UPDATES=0;

SET FOREIGN_KEY_CHECKS=0;

delete FROM Members WHERE Member_Name='Sneha';

SELECT * FROM members;

8. Delete record of member_id=104.

SET SQL_SAFE_UPDATES=0;

SET FOREIGN_KEY_CHECKS=0;

delete FROM Members WHERE Member_Id=104;

9. Change address of Aarya to "Delhi".

SET SQL_SAFE_UPDATES=0;

UPDATE Members

SET Member_Address="Delhi" WHERE Member_Name='Aarya';

10. Generate alphabetical list of members.

SELECT * FROM Members ORDER BY Member_Name;

Member_id	Member_Name	Member_Address	Member_PhoneNo
105	Aarya	Delhi	6876890890
101	Ahana	VimanNagar	8757979078
100	Madhura	Padmavati	8967564567
103	Pallavi	KalyaniNagar	7867564567
108	Pratham	Pawai	8756789087
109	Rajesh	Dadar	9898768678
106	Rasika	FCRoad	7879789876
110	Sahil	Navi Mumbai	7654568968
107	Sanika	Sahakar Nagar	7867564534
NULL	NULL	NULL	NULL

11. Display the bookname and book author whose book cost is more than 200

SELECT Book_Name,Book_Author FROM Books WHERE Book_Cost>200;

Book_Name	Book_Author
The Subtle Art of Not Giving a Fuck	Mark Manson
Harry Potter	J.K.Rowling
The God of Small Things	Arundhati Roy
Pathways to Light	Dr Prakash Amte
Rich Dad Poor Dad	Robert T. Kiyosaki
Endless Night	Agatha Christi
Five Little Pigs	Agatha Christi
The Story of My Life	Hellen Keller
Crooked House	Agatha Christi

12. Display all books published by 'HarperCollins' publications with cost less than 1000

SELECT * FROM Books WHERE Book_Publication LIKE 'HarperCollins' AND Book_cost<1000;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1203	The Room on the Roof	Ruskin Bond	HarperCollins	200	2000-08-13	103
1207	Endless Night	Agatha Christi	HarperCollins	500	2009-05-09	107
1208	Five Little Pigs	Agatha Christi	HarperCollins	500	2007-06-19	108
1210	Crooked House	Agatha Christi	HarperCollins	450	2004-06-19	110

13. Display list of books with cost in the range 500 to 1000 (use between clause)

SELECT * FROM Books WHERE Book_cost BETWEEN 500 AND 1000;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1207	Endless Night	Agatha Christi	HarperCollins	500	2009-05-09	107
1208	Five Little Pigs	Agatha Christi	HarperCollins	500	2007-06-19	108
1209	The Story of My Life	Hellen Keller	Simon & Schuster	600	1976-06-19	109
NULL	NULL	NULL	NULL	NULL	NULL	NULL

14. Display all the authors who have written books with cost greater than 200.

SELECT Book_Name,Book_Author FROM Books WHERE Book_Cost>200;

Book_Author
J.K.Rowling
Arundhati Roy
Robert T. Kiyosaki
Agatha Christi
Agatha Christi
Hellen Keller
Agatha Christi

15. Display all books in descending order of cost.

SELECT * FROM Books ORDER BY Book_cost DESC;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1209	The Story of My Life	Hellen Keller	Simon & Schuster	600	1976-06-19	109
1207	Endless Night	Agatha Christi	HarperCollins	500	2009-05-09	107
1208	Five Little Pigs	Agatha Christi	HarperCollins	500	2007-06-19	108
1210	Crooked House	Agatha Christi	HarperCollins	450	2004-06-19	110
1204	The God of Small Things	Arundhati Roy	Penguin Random House	390	2006-08-10	104
1201	Harry Potter	J.K.Rowling	Penguin Publication	370	2001-07-23	101
1206	Rich Dad Poor Dad	Robert T. Kiyosaki	Penguin Publication	300	2008-06-03	106
1200	The Subtle Art of Not Giving a Fuck	Mark Manson	HarperCollins Publishers	250	2017-05-10	100
1205	Pathways to Light	Dr Prakash Amte	Penguin Publication	210	2000-03-08	105
1203	The Room on the Roof	Ruskin Bond	HarperCollins	200	2000-08-13	103
1202	Malgudi Days	R.K.Narayan	Malgudi Publishers	150	1999-05-12	102

16. List all books which were published in June 2007.

SELECT * FROM Books WHERE year(DOPublication)=2007 AND month(DOPublication)=6;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1208	Five Little Pigs	Agatha Christi	HarperCollins	500	2007-06-19	108

17. Display the book name , book cost published on the date '10August 2006'

SELECT Book_Name,Book_cost FROM Books WHERE DOPublication='2006-8-10';

Book_Name	Book_cost
The God of Small Things	390

18. Display the staff table with staff_name in capital letters

SELECT Staff_id,upper(Staff_Name),Staff_Address,Staff_Gender FROM Staff;

Staff_id	upper(Staff_Name)	Staff_Address	Staff_Gender
1	ADITI SHINDE	Kothrud	F
2	RAMA EDLABADKAR	Dhankawadi	F
3	SACHIN PILGAONKAR	Warje	M
4	SOHAM DESHPANDE	Aundh	M
5	CHETANA KUMAR	Pimpri	F
6	SAGAR CHAWLA	Baner	M

19. Display name of all the female staff from the staff table.

SELECT Staff_Name,Staff_Gender FROM Staff WHERE Staff_Gender LIKE 'F';

Staff_Name	Staff_Gender
Aditi Shinde	F
Rama Edlabadkar	F
Chetana Kumar	F

20. Display the Average, minimum and maximum cost of books

SELECT AVG(Book_cost),MIN(Book_cost),MAX(book_cost) FROM Books;

AVG(Book_cost)	MIN(Book_cost)	MAX(book_cost)
356.3636	150	600

21. Display the average price of books which are written by 'Agatha Christi';

SELECT AVG(Book_cost) FROM Books WHERE Book_Author LIKE 'Agatha Christi';

AVG(Book_cost)
▶ 483.3333

22. Count the no. Of books in library which are having cost less than 300

SELECT COUNT(Book_Name) FROM Books WHERE Book_Cost<300;

COUNT(Book_Name)
4

23. Display the names of members in uppercase.

SELECT upper(Member_Name) FROM Members;

upper(Member_Name)
MADHURA
AHANA
PALLAVI
AARYA
RASIKA
SANIKA
PRATHAM
RAJESH
SAHIL

24. Display the cost of books when incremented by 5% for cost<300.

SET SQL_SAFE_UPDATES=0;

UPDATE Books

SET Book_cost = 1.05 * Book_cost where Book_cost < 300;

SELECT Book_cost FROM Books;

Book_cost
263
370
158
210
390
221
300
500
500
600
450

25. Display members whose address is Mumbai OR phone no is 87 0r 78

SELECT * from Members where Member_address = 'Sahakar Nagar' OR Member_PhoneNo like '87%' or Member_PhoneNo like

'78%';

Member_id	Member_Name	Member_Address	Member_PhoneNo
101	Ahana	VimanNagar	8757979078
103	Pallavi	KalyaniNagar	7867564567
106	Rasika	FCRoad	7879789876
107	Sanika	Sahakar Nagar	7867564534
108	Pratham	Pawai	8756789087
NULL	NULL	NULL	NULL

26. Display all members whose names begin with letter from A to Q.

select * from members where Member_Name<'Q';

Member_id	Member_Name	Member_Address	Member_PhoneNo
100	Madhura	Padmavati	8967564567
101	Ahana	VimanNagar	8757979078
103	Pallavi	KalyaniNagar	7867564567
105	Aarya	Delhi	6876890890
108	Pratham	Pawai	8756789087
NULL	NULL	NULL	NULL

27. Display all members whose name starts with M.

SELECT * FROM Members WHERE Member_Name LIKE 'M%';

Member_id	Member_Name	Member_Address	Member_PhoneNo
100	Madhura	Padmavati	8967564567

28. Display all members whose name ends with R.

SELECT * FROM Members WHERE Member_Name LIKE '%R';

Member_id	Member_Name	Member_Address	Member_PhoneNo
111	Rudr	ShivajiNagar	9867897867
NULL	NULL	NULL	NULL

29. Display all members whose name has i as 2nd character. .

SELECT * FROM Members WHERE Member_Name LIKE '_i%';

Member_id	Member_Name	Member_Address	Member_PhoneNo
112	Ridhi	Katraj	9865345678
NULL	NULL	NULL	NULL

30. Show the different types of cities from staff addresses by eliminating the repeated one.
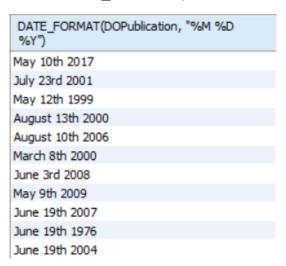
SELECT DISTINCT Staff_Address FROM Staff;

Staff_Address
Kothrud
Dhankawadi
Warje
Aundh
Pimpri
Baner

31. Display the DoPublication from Books table in different formats.

Select DATE_FORMAT(DOPublication, "%Y") from Books;

DATE_FORMAT(DOPublication, "%Y")
2017
2001
1999
2000
2006
2000
2008
2009
2007
1976
2004

Select DATE_FORMAT(DOPublication, "%M %D %Y") from Books;

DATE_FORMAT(DOPublication, "%M %D %Y")
May 10th 2017
July 23rd 2001
May 12th 1999
August 13th 2000
August 10th 2006
March 8th 2000
June 3rd 2008
May 9th 2009
June 19th 2007
June 19th 1976
June 19th 2004

32. Display count of the members citiwise (groupby)

SELECT Member_Address,COUNT(Member_Name) FROM Members GROUP BY Member_Address;

Member_Address	COUNT(Member_Name)
Padmavati	1
VimanNagar	1
KalyaniNagar	1
Delhi	1
FCRoad	1
Sahakar Nagar	1
Pawai	1
Dadar	1
Navi Mumbai	1
ShivajiNagar	1
Katraj	1

33. find sum of bookcost according to the publications (groupby)

SELECT Book_Publication,Sum(Book_cost) FROM Books GROUP BY (Book_Publication);

Book_Publication	Sum(Book_cost)
HarperCollins Publishers	250
Penguin Publication	880
Malgudi Publishers	150
HarperCollins	1650
Penguin Random House	390
Simon & Schuster	600

34. Display all the books with cost>250 and address(groupby)

SELECT * FROM Books WHERE Book_cost>250 GROUP BY Book_Author;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1200	The Subtle Art of Not Giving a Fuck	Mark Manson	HarperCollins Publishers	263	2017-05-10	100
1201	Harry Potter	J.K.Rowling	Penguin Publication	370	2001-07-23	101
1204	The God of Small Things	Arundhati Roy	Penguin Random House	390	2006-08-10	104
1206	Rich Dad Poor Dad	Robert T. Kiyosaki	Penguin Publication	300	2008-06-03	106
1207	Endless Night	Agatha Christi	HarperCollins Publication	500	2009-05-09	107
1209	The Story of My Life	Hellen Keller	Simon & Schuster	600	1976-06-19	109
NULL	NULL	NULL	NULL	NULL	NULL	NULL

35. Display only first 3 records of the members table (limit)

SELECT * FROM Members LIMIT 3;

Member_id	Member_Name	Member_Address	Member_PhoneNo
100	Madhura	Padmavati	8967564567
101	Ahana	VimanNagar	8757979078
103	Pallavi	KalyaniNagar	7867564567
NULL	NULL	NULL	NULL

36. Display 5 records from books table starting from record 2 (limit)

SELECT * FROM Books LIMIT 5 OFFSET 1;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1201	Harry Potter	J.K.Rowling	Penguin Publication	370	2001-07-23	101
1202	Malgudi Days	R.K.Narayan	Malgudi Publishers	150	1999-05-12	102
1203	The Room on the Roof	Ruskin Bond	HarperCollins	200	2000-08-13	103
1204	The God of Small Things	Arundhati Roy	Penguin Random House	390	2006-08-10	104
1205	Pathways to Light	Dr Prakash Amte	Penguin Publication	210	2000-03-08	105
NULL	NULL	NULL	NULL	NULL	NULL	NULL

37. Display all the books issued by member 101 and 104 (use union)

SELECT * FROM Books WHERE Member_id=101

UNION

SELECT * FROM Books WHERE Member_id=104;

Book_id	Book_Name	Book_Author	Book_Publication	Book_cost	DOPublication	Member_id
1201	Harry Potter	J.K.Rowling	Penguin Publication	370	2001-07-23	101
1204	The God of Small Things	Arundhati Roy	Penguin Random House	390	2006-08-10	104

38. Display the books publication dates in following format

a) Month Day Year HH:MM:SS AM/PM

SELECT Date_Format(DOPublication,'%M %D %Y %r') from Books;

Date_Format(DOPublication,'%M %d %Y %r')
May 10 2017 12:00:00 AM
July 23 2001 12:00:00 AM
May 12 1999 12:00:00 AM
August 13 2000 12:00:00 AM
August 10 2006 12:00:00 AM
March 08 2000 12:00:00 AM
June 03 2008 12:00:00 AM
May 09 2009 12:00:00 AM
June 19 2007 12:00:00 AM
June 19 1976 12:00:00 AM
June 19 2004 12:00:00 AM

b) DD-MM-YYYY

SELECT DATE_FORMAT(DOPublication, '%d-%m-%y') FROM Books;

DATE_FORMAT(DOPublication, '%d-%m-%y')
10-05-17
23-07-01
12-05-99
13-08-00
10-08-06
08-03-00
03-06-08
09-05-09
19-06-07
19-06-76
19-06-04

c) Day Month Year (dd/mm/yy)

SELECT DATE_FORMAT(DOPublication,'%d/%m/%Y') FROM Books;

DATE_FORMAT(DOPublication,'%d/%m/%Y')
10/05/2017
23/07/2001
12/05/1999
13/08/2000
10/08/2006
08/03/2000
03/06/2008
09/05/2009
19/06/2007
19/06/1976
19/06/2004

d) dd-mm-YYYY HH:mm:SS:ms

SELECT DATE_FORMAT(DOPublication,'%d-%m-%Y %hh:%mm:%ss:%ms')
FROM Books;

DATE_FORMAT(DOPublication,'%d-%m-%Y %hh:%mm:%ss:%ms')
10-05-2017 12h:05m:00s:05s
23-07-2001 12h:07m:00s:07s
12-05-1999 12h:05m:00s:05s
13-08-2000 12h:08m:00s:08s
10-08-2006 12h:08m:00s:08s
08-03-2000 12h:03m:00s:03s
03-06-2008 12h:06m:00s:06s
09-05-2009 12h:05m:00s:05s
19-06-2007 12h:06m:00s:06s
19-06-1976 12h:06m:00s:06s
19-06-2004 12h:06m:00s:06s