

Experiment no 8

Aim: To implement Clauses in SQL

1) Order By

SELECT * FROM books

ORDER BY Bookno DESC;

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 use library_management;  
2 SELECT * FROM books  
3 ORDER BY Bookno DESC;
```

The Results Grid displays the following data:

Bookno	Bookname	Authname	RentPrice
4	How to Prevent the Next Pandemic	Bill Gates	250
3	India, That is Bharat: Coloniality, Civilisation, C...	J sai Deepak	350
2	The Christmas Pig	JK Rowling	300
1	Rich Dad poor Dad	Robert Kiyosaki	200

The Output pane shows the execution log:

#	Time	Action	Message
1	12:16:22	use library_management	0 row(s) affected
2	12:16:22	SELECT * FROM books ORDER BY Bookno DESC LIMIT 0, 1000	4 row(s) returned

2) Having

select bookno, bookname, Authname, Rentprice

from books

having RentPrice < 300;

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 use library_management;  
2 select bookno, bookname, Authname, Rentprice  
3 from books  
4 having RentPrice < 300;
```

The Results Grid displays the following data:

bookno	bookname	Authname	Rentprice
1	Rich Dad poor Dad	Robert Kiyosaki	200
4	How to Prevent the Next Pandemic	Bill Gates	250

The Output pane shows the execution log:

#	Time	Action	Message
1	13:03:30	use library_management	0 row(s) affected
2	13:03:30	select bookno, bookname, Authname, Rentprice from books having RentPrice < 300 LIMIT ...	2 row(s) returned

3) Group By

select Bookno, Bookname, Authorname

from books

Group by bookno;

The screenshot shows the MySQL Workbench interface. The left sidebar contains the 'Navigator' pane with 'MANAGEMENT' and 'INSTANCE' sections. The main area displays 'Query 1' with the following SQL code:

```
1 • use library_management;
2 • select Bookno, Bookname, Authorname
3   from books
4  Group by bookno;
```

Below the query editor, the 'Result Grid' shows the output of the query. It has three columns: 'Bookno', 'Bookname', and 'Authorname'. The results are as follows:

Bookno	Bookname	Authorname
1	Rich Dad poor Dad	Robert Kiyosaki
2	The Christmas Pig	JK Rowling
3	India, That is Bharat: Coloniality, Civilisation, C...	J sai Deepak
4	How to Prevent the Next Pandemic	Bill Gates

At the bottom, the 'Output' pane shows the 'Action Output' for the query execution:

#	Time	Action	Message
✓ 1	13:09:56	use library_management	0 row(s) affected
✓ 2	13:09:56	select Bookno, Bookname, Authorname from books Group by bookno LIMIT 0, 1000	4 row(s) returned