10 Aug 23

Database Schema : DSOI

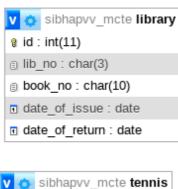
v 📀 sibhapvv_mcte dsoi 🗈 dsoi_no : char(3)

exp_head : char(10)

exp_amount : int(11)

date_of_txn : date

sibhapvv_mcte main
s_no: char(5)
name : varchar(20)
course : varchar(8)
cda_acct_no : varchar(12)
bankers : varchar(16)
bank_branch : varchar(20)
bankers_address : varchar(25)
ifsc_code : varchar(12)
dsoi_mem_no : varchar(4)
t_mem_no : char(4)
lib : char(4)
rk : varchar(20)



sibhapvv_mcte tennis
 t_mem_no : char(3)
 date : date

<u>Requirements</u>

1. List names of three offrs topping the list in bar expenses.

Ser	Pseudocode	SQL Query
1	Identify the table storing bar expenses: DSOI	Select exp_amount from DSOI;
2	Aggregate the expenses	Select sum(exp_amount) from DSOI;
3	Group by member	Select sum(exp_amount) from DSOI group by dsoi_no;
4	Additionally group by exp_head	Select sum(exp_amount) from DSOI group by dsoi_no, exp_head;
5	Filter by bar expense	Select sum(exp_amount) from DSOI group by dsoi_no, exp_head having exp_head='liq';
6	Extract name from table main	Select sum(exp_amount) amount from DSOI t1 join main t2 on t1.dsoi_mem_no=t2.dsoi_no group by dsoi_no, exp_head having exp_head='liq';
7	Sort by expense , higher number first	Select sum(exp_amount) amount from DSOI t1 join main t2 on t1.dsoi_mem_no=t2.dsoi_no group by dsoi_no, exp_head having exp_head='liq' order by amount desc;
8	Display just three records	Select sum(exp_amount) amount from DSOI t1 join main t2 on t1.dsoi_mem_no=t2.dsoi_no group by dsoi_no, exp_head having exp_head='liq' order by amount desc limit 3;

Final Query

```
Select
   sum(exp_amount) amount
from
   DSOI t1
   join
    main t2
     on t1.dsoi_mem_no = t2.dsoi_no
group by
   dsoi_no,
   exp_head
having
   exp_head = 'liq'
order by
   amount desc limit 3;
```