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1 • create database library;
2 • use library;
3
4 • create table branch(branch_no int primary key,manager_id int,branch_address varchar(255),contact_no varchar(15));
5 • insert into branch (branch_no,manager_id,branch_address,contact_no)
6 values
7 (1,101,'123 Library St,Thiruvananthapuram,Kerala','1234567890'),
8 (2,102,'456 Book Ln,Kochi,Kerala','0987654321'),
9 (3,103,'789 Reading Rd,Kozhikode,Kerala','5678901234');
10
11 • create table employee(emp_id int primary key,emp_name varchar(255),position varchar(255),salary decimal(10, 2),branch_no int,
12 foreign key (branch_no) references branch(branch_no));
13 • insert into employee (emp_id,emp_name,position,salary,branch_no)
14 values
15 (201,'Ajay Kumar','Librarian',60000,1),
16 (202,'Beena Nair','Assistant Librarian',45000,1),
17 (203,'Chitra Menon','Clerk',30000,2),
18 (204,'Deepak R','Technician',35000,2),
19 (205,'Esha S','Manager',75000,3);
20
21 • create table books(isbn varchar(13) primary key,book_title varchar(255),category varchar(255),rental_price decimal(10, 2),
22 status varchar(3) check (status in ('yes', 'no')),author varchar(255),publisher varchar(255));
23 • insert into books (isbn,book_title,category,rental_price,status,author,publisher)
24 values
25 ('9780448095011','nancy drew: the secret of the old clock','mystery',50.00,'yes','carolyn keene','grosset & dunlap'),
26 ('9780448095028','nancy drew: the hidden staircase','mystery',55.00,'yes','carolyn keene','grosset & dunlap'),
27 ('9780448095035','nancy drew: the bungalow mystery','mystery',50.00,'yes','carolyn keene','grosset & dunlap'),
28 ('9780448095042','nancy drew: the mystery at lilac inn','mystery',55.00,'no','carolyn keene','grosset & dunlap'),
29 ('9780448095059','nancy drew: the secret of shadow ranch','mystery',60.00,'yes','carolyn keene','grosset & dunlap'),
30 ('9780448089010','hardy boys: the tower treasure','mystery',50.00,'yes','franklin w. dixon','grosset & dunlap'),
31 ('9780448089027','hardy boys: the house on the cliff','mystery',55.00,'yes','franklin w. dixon','grosset & dunlap'),
32 ('9780448089034','hardy boys: the secret of the old mill','mystery',50.00,'no','franklin w. dixon','grosset & dunlap'),
33 ('9780448089041','hardy boys: the missing chums','mystery',55.00,'yes','franklin w. dixon','grosset & dunlap'),
34 ('9780448089058','hardy boys: hunting for hidden gold','mystery',60.00,'yes','franklin w. dixon','grosset & dunlap'),
35 ('9781444908664','secret seven: the secret seven','children',40.00,'yes','enid blyton','hodder children's books'),
36 ('9781444908695','secret seven: secret seven adventure','children',45.00,'yes','enid blyton','hodder children's books'),
37 ('9781444908701','secret seven: well done, secret seven','children',40.00,'no','enid blyton','hodder children's books'),
38 ('9781444908718','secret seven: secret seven on the trail','children',45.00,'yes','enid blyton','hodder children's books'),
39 ('9781444908725','secret seven: go ahead, secret seven','children',50.00,'yes','enid blyton','hodder children's books'),
40 ('9780316067935','the host','science fiction',70.00,'yes','stephenie meyer','little,brown and company'),
41 ('9789381626344','shiva trilogy: the immortals of meluha','fantasy',65.00,'yes','amish tripathi','westland'),
42 ('9789381626351','shiva trilogy: the secret of the nagas','fantasy',70.00,'yes','amish tripathi','westland'),
43 ('9789381626368','shiva trilogy: the oath of the vayuputras','fantasy',75.00,'no','amish tripathi','westland'),
44 ('9789381626375','shiva trilogy: the legend of suheldev','fantasy',80.00,'yes','amish tripathi','westland');

45 • create table customer(customer_id int primary key,customer_name varchar(255),customer_address varchar(255),reg_date date);
46 • insert into customer (customer_id,customer_name,customer_address,reg_date)
47 values
48 (301,'Fathima T','678 Reader St,Thiruvananthapuram,Kerala','2021-11-10'),
49 (302,'Gopalan K','789 Bibliophile Ln,Kochi,Kerala','2020-06-15'),
50 (303,'Hema R','890 Bookworm Rd,Kozhikode,Kerala','2022-01-20'),
51 (304,'Ishaan N','901 Novelist Dr,Thiruvananthapuram,Kerala','2023-03-05'),
52 (305,'Jayan M','123 Storyteller St,Kochi,Kerala','2021-12-25');
53
54
55 • create table issuestatus(issue_id int primary key,issued_cust int,issued_book_name varchar(255),issue_date date,isbn_book varchar(13),
56 foreign key (issued_cust) references customer(customer_id),foreign key (isbn_book) references books(isbn));
57 • insert into issuestatus (issue_id,issued_cust,issued_book_name,issue_date,isbn_book)
58 values
59 (401,301,'nancy drew: the secret of the old clock','2023-06-10','9780448095011'),
60 (402,302,'hardy boys: the tower treasure','2023-06-15','9780448089010'),
61 (403,303,'secret seven: the secret seven','2023-06-20','9781444908664'),
62 (404,304,'the host','2023-06-25','9780316067935'),
63 (405,305,'shiva trilogy: the immortals of meluha','2023-06-30','9789381626344');
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65 • create table returnstatus(return_id int primary key,return_cust int,return_book_name varchar(255),return_date date,isbn_book2 varchar(13),
66 • foreign key (return_cust) references customer(customer_id),foreign key (isbn_book2) references books(isbn));
67 • insert into returnstatus (return_id,return_cust,return_book_name,return_date,isbn_book2)
68 • values
69 • (501,301,'nancy drew: the secret of the old clock','2023-07-10','9780448095011'),
70 • (502,302,'hardy boys: the tower treasure','2023-07-15','9780448089010'),
71 • (503,303,'secret seven: the secret seven','2023-07-20','9781444908664'),
72 • (504,304,'the host','2023-07-25','9780316067935'),
73 • (505,305,'shiva trilogy: the immortals of meluha','2023-07-30','9789381626344');
74
75 • select book_title,category,rental_price from books where status='yes';
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book_title	category	rental_price
the host	science fiction	70.00
hardy boys: the tower treasure	mystery	50.00
hardy boys: the house on the cliff	mystery	55.00
hardy boys: the missing chums	mystery	55.00
hardy boys: hunting for hidden gold	mystery	60.00
nancy drew: the secret of the old clock	mystery	50.00
nancy drew: the hidden staircase	mystery	55.00
nancy drew: the bungalow mystery	mystery	50.00
nancy drew: the secret of shadow ranch	mystery	60.00
secret seven: the secret seven	children	40.00
secret seven: secret seven adventure	children	45.00
secret seven: secret seven on the trail	children	45.00
secret seven: go ahead, secret seven	children	50.00
shiva trilogy: the immortals of meluha	fantasy	65.00
shiva trilogy: the secret of the nagas	fantasy	70.00
shiva trilogy: the legend of suheldev	fantasy	80.00

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76 • select emp_name,salary from employee order by salary desc;

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emp_name	salary
Esha S	75000.00
Ajay Kumar	60000.00
Beena Nair	45000.00
Deepak R	35000.00
Chitra Menon	30000.00

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77 • select books.book_title,customer.customer_name from issuestatus join books on issuestatus.isbn_book=books.isbn
78 • join customer on issuestatus.issued_cust=customer.customer_id;

```

book_title	customer_name
nancy drew: the secret of the old clock	Fathima T
hardy boys: the tower treasure	Gopalan K
secret seven: the secret seven	Hema R
the host	Ishaan N
shiva trilogy: the immortals of meluha	Jayan M

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79 • select category, count(*) as "Total Books" from books group by category;

```

category	Total Books
science fiction	1
mystery	10
children	5
fantasy	4

```
80 • select emp_name,position from employee where salary>50000;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
emp_name	position		
Ajay Kumar	Librarian		
Esha S	Manager		

```
81 • select customer_name from customer c left join issuestatus i on c.customer_id=i.issued_cust where c.reg_date<'2022-01-01'  
82 and i.issued_cust is null;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
customer_name			

```
83 • select branch_no,count(*) as "Total no of Employees" from employee group by branch_no;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
branch_no	Total no of Employees		
1	2		
2	2		
3	1		

```
84 • select distinct customer.customer_name from issuestatus join customer on issuestatus.issued_cust=customer.customer_id  
85 where issue_date between '2023-06-01' and '2023-06-30';
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
customer_name			
Fathima T			
Gopalan K			
Hema R			
Ishaan N			
Jayan M			

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
book_title			

```
87 • select branch_no,count(*) as "Total no of Employees" from employee group by branch_no having count(*)>5;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
branch_no	Total no of Employees		

```
88 • select e.emp_name,b.branch_address from branch b join employee e on b.manager_id=e.emp_id;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
emp_name	branch_address		

```
89 • select distinct c.customer_name from issuestatus i join customer c on i.issued_cust=c.customer_id
90 join books b on i.isbn_book=b.isbn where b.rental_price>25;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	customer_name
▶	Fathima T
	Gopalan K
	Hema R
	Ishaan N
	Jayan M