



CALIFORNIA STATE UNIVERSITY, EAST BAY

DATABASE ARCHITECTURE

Libraries DB project #3

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21. List the Consumer titles owned as a book by a branch but not as a Dvd by the same branch.

```
SELECT title
FROM books
WHERE category = 'Consumer'
AND NOT
EXISTS (

SELECT *
FROM dvds
WHERE branch = books.branch
AND title = books.title
)
```

			title
<input type="checkbox"/>			Living in State Parks
<input type="checkbox"/>			Living in State Parks
<input type="checkbox"/>			Same as Cash

22. List the cardholders who have only one book checked out.

```
SELECT cardholdername
FROM cardholders
WHERE (

SELECT count( * )
FROM books
WHERE cardholder = cardholdername
) =1
```




			cardholdername
<input type="checkbox"/>			Raul Felix
<input type="checkbox"/>			Trin Prawn

23. List the cardholders who have books checked out from every branch located in Hayward.

```
SELECT cardholdername
FROM cardholders
WHERE (

SELECT count( * )
FROM branches
WHERE city = 'Hayward'
AND branchname NOT
IN (

SELECT DISTINCT branch
FROM books
WHERE cardholder = cardholdername
)
) =0
```

			cardholdername
<input type="checkbox"/>			Sashoon Nusrat
<input type="checkbox"/>			Swanny Pottkins

24. List the cardholders who have no books checked out from any branch located in Hayward.

```
SELECT cardholdername
FROM cardholders
WHERE cardholdername NOT
IN (

SELECT cardholder
FROM books, branches
WHERE branch = branchname
AND city = 'Hayward'
AND cardholder IS NOT NULL
)
```

			cardholdername
<input type="checkbox"/>			Tanny Macaroon
<input type="checkbox"/>			Trin Prawn

25. List the cardholders who have books checked out in every category as those for books checked out by Sashoon Nusrat.

```
SELECT cardholdername
FROM cardholders
WHERE (

SELECT count( * )
FROM books sn
WHERE cardholder = 'Sashoon_Nusrat'
AND category NOT
IN (

SELECT DISTINCT category
FROM books
WHERE cardholder = cardholdername
)
) =0
```

			cardholdername
<input type="checkbox"/>			Bev Costco
<input type="checkbox"/>			Sashoon Nusrat