



CALIFORNIA STATE UNIVERSITY, EAST BAY

DATABASE ARCHITECTURE

---

# Libraries DB project

---

*Author:*  
Erwan GUYADER

*Supervisor:*  
Prof. James DALEY

October 27, 2011

1. List all columns of the Cardholders table.

```
SELECT *  
FROM cardholders
```

Options

			CardholderName	City
<input type="checkbox"/>			Bev Costco	San Leandro
<input type="checkbox"/>			Raul Felix	San Leandro
<input type="checkbox"/>			Sashoon Nusrat	Hayward
<input type="checkbox"/>			Swanny Pottkins	Fremont
<input type="checkbox"/>			Tanny Macaroon	Hayward
<input type="checkbox"/>			Trin Prawn	Union City

2. List the City column of the Cardholders table including duplicates.







```
SELECT city  
FROM cardholders
```

Options

			city
<input type="checkbox"/>			San Leandro
<input type="checkbox"/>			San Leandro
<input type="checkbox"/>			Hayward
<input type="checkbox"/>			Fremont
<input type="checkbox"/>			Hayward
<input type="checkbox"/>			Union City


























3. List the City column of the Cardholders table not including duplicates.

```
SELECT DISTINCT city
FROM cardholders
```

			city
<input type="checkbox"/>			San Leandro
<input type="checkbox"/>			Hayward
<input type="checkbox"/>			Fremont
<input type="checkbox"/>			Union City

4. List the Cardholder column of the Books table including nulls and duplicates.

```
SELECT cardholder
FROM books
```

			cardholder
<input type="checkbox"/>			NULL
<input type="checkbox"/>			NULL
<input type="checkbox"/>			NULL
<input type="checkbox"/>			Bev Costco
<input type="checkbox"/>			Bev Costco
<input type="checkbox"/>			Bev Costco
<input type="checkbox"/>			Raul Felix
<input type="checkbox"/>			Sashoon Nusrat
<input type="checkbox"/>			Sashoon Nusrat
<input type="checkbox"/>			Swanny Pottkins
<input type="checkbox"/>			Swanny Pottkins
<input type="checkbox"/>			Trin Prawn

5. List the Cardholder column of the Books table not including nulls or duplicates.

```
SELECT DISTINCT cardholder
FROM books
WHERE cardholder IS NOT NULL
```

← T →			cardholder
<input type="checkbox"/>			Bev Costco
<input type="checkbox"/>			Raul Felix
<input type="checkbox"/>			Sashoon Nusrat
<input type="checkbox"/>			Swanny Pottkins
<input type="checkbox"/>			Trin Prawn

6. List the names of cardholders who have books checked out from the Downtown branch. Do not list nulls or duplicates.

```
SELECT DISTINCT cardholder
FROM books
WHERE branch = 'Downtown'
AND category = 'Consumer'
AND cardholder IS NOT NULL
```

← T →			cardholder
<input type="checkbox"/>			Swanny Pottkins
<input type="checkbox"/>			Sashoon Nusrat

7. List the titles of books belonging to the Downtown branch in the Consumer category.

```
SELECT title
FROM books
WHERE branch = 'Downtown'
AND category = 'Consumer'
```

← T →			title
<input type="checkbox"/>			"No Doc" Loans
<input type="checkbox"/>			Living in State Parks

8. List the titles of books in the Business category that have more than one copy.

```
SELECT title
FROM books
WHERE copy > 1
AND category = 'Business'
```

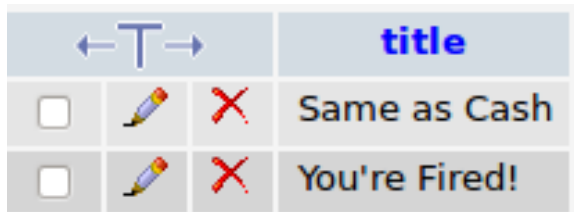


			title
<input type="checkbox"/>			You're Fired!

↑ Check All / Uncheck All

9. List the titles of books belonging to the Bayfair branch that are not checked out.

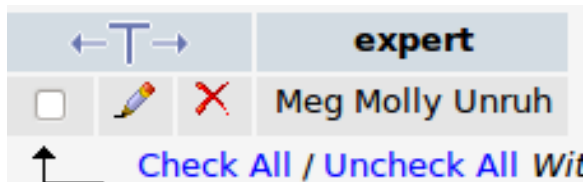
```
SELECT title
FROM books
WHERE branch = 'Bayfair'
AND cardholder IS NULL
```



			title
<input type="checkbox"/>			Same as Cash
<input type="checkbox"/>			You're Fired!

10. List the expert for the Science category.

```
SELECT expert
FROM categories
WHERE categoryname = 'Science'
```



			expert
<input type="checkbox"/>			Meg Molly Unruh

↑ Check All / Uncheck All With







11. For every book that is checked out, list its title, cardholder, and cardholder's city.

```
SELECT title , cardholder , city
FROM books, cardholders
WHERE cardholder IS NOT NULL
```

title	cardholder	city
Living in State Parks	Bev Costco	San Leandro
Raccoons	Bev Costco	San Leandro
Toxic Bonds	Bev Costco	San Leandro
WD-40	Raul Felix	San Leandro
Living in State Parks	Sashoon Nusrat	San Leandro
WD-40	Sashoon Nusrat	San Leandro
"No Doc" Loans	Swanny Pottkins	San Leandro
Plastics	Swanny Pottkins	San Leandro
Hayward Auto Row	Trin Prawn	San Leandro
Living in State Parks	Bev Costco	San Leandro
Raccoons	Bev Costco	San Leandro
Toxic Bonds	Bev Costco	San Leandro
WD-40	Raul Felix	San Leandro
Living in State Parks	Sashoon Nusrat	San Leandro
WD-40	Sashoon Nusrat	San Leandro
"No Doc" Loans	Swanny Pottkins	San Leandro
Plastics	Swanny Pottkins	San Leandro
Hayward Auto Row	Trin Prawn	San Leandro
Living in State Parks	Bev Costco	Hayward
Raccoons	Bev Costco	Hayward
Toxic Bonds	Bev Costco	Hayward
WD-40	Raul Felix	Hayward
Living in State Parks	Sashoon Nusrat	Hayward
WD-40	Sashoon Nusrat	Hayward
"No Doc" Loans	Swanny Pottkins	Hayward
Plastics	Swanny Pottkins	Hayward
Hayward Auto Row	Trin Prawn	Hayward
Living in State Parks	Bev Costco	Fremont
Raccoons	Bev Costco	Fremont
Toxic Bonds	Bev Costco	Fremont

12. List the names and cities of the cardholders who have books checked out in the Science category.

```
SELECT cardholdername, city
FROM cardholders, books
WHERE cardholder = cardholdername
AND category = 'Science'
```

			cardholdername	city
<input type="checkbox"/>			Bev Costco	San Leandro
<input type="checkbox"/>			Raul Felix	San Leandro
<input type="checkbox"/>			Sashoon Nusrat	Hayward