CALIFORNIA STATE UNIVERSITY, EAST BAY

DATABASE ARCHITECTURE

Libraries DB project #2 & AddBook.html

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DB project

13. List the names of the cardholders who have checked out a book in the same category as a book checked out by Raul Felix.

```
SELECT b1.cardholder
FROM books b1, books b2
WHERE b2.cardholder = "Raul_Felix"
AND b2.category = b1.category
```

			cardholder
☐	✎	✗	Bev Costco
☐	✎	✗	Raul Felix
☐	✎	✗	Sashoon Nusrat

14. List the names of the cardholders who have checked out a book in the same category as a book checked out by Swanny Pottkins. Don't list duplicates or nulls.

```
SELECT DISTINCT b1.cardholder
FROM books b1, books b2
WHERE b2.cardholder = "Swanny_Pottkins"
AND b2.category = b1.category
AND b1.cardholder IS NOT NULL
```

			cardholder
☐	✎	✗	Swanny Pottkins
☐	✎	✗	Sashoon Nusrat
☐	✎	✗	Bev Costco

15. List the names of the cardholders who have two or more books checked out and where at least one is in the Science category.

```sql
SELECT cardholder
FROM books b1
WHERE (

SELECT count( * )
FROM books
WHERE b1.cardholder = cardholder
) >1
AND b1.category = "Science"
```

			cardholder
☐	✏	✗	Bev Costco
☐	✏	✗	Sashoon Nusrat

16. List the names of the cardholders who have checked out a book in a category serviced by the same expert as a category of a book checked out by Trin Prawn.

```sql
SELECT b2.cardholder
FROM categories c1, categories c2, books b1, books b2
WHERE b1.cardholder = "Trin_Prawn"
AND c1.categoryname = b1.category
AND c2.expert = c1.expert
AND b2.category = c2.categoryname
```

			cardholder
☐	✏	✗	Bev Costco
☐	✏	✗	Raul Felix
☐	✏	✗	Sashoon Nusrat
☐	✏	✗	Trin Prawn

17. List the names of the cardholders who have checked out both a book and a Dvd.

```
SELECT books.cardholder
FROM books, dvds,
WHERE books.cardholder = dvds.cardholder
```

			cardholder
☐	🖉	✗	Raul Felix
☐	🖉	✗	Swanny Pottkins
☐	🖉	✗	Swanny Pottkins
☐	🖉	✗	Trin Prawn
☐	🖉	✗	Trin Prawn

18. List the names of the cardholders who have checked out both a book and a Dvd from the same branch.

```
SELECT books.cardholder
FROM books, dvds
WHERE books.cardholder = dvds.cardholder
AND books.branch = dvds.branch
```

			cardholder
☐	🖉	✗	Swanny Pottkins
☐	🖉	✗	Trin Prawn
☐	🖉	✗	Trin Prawn

19. List the titles of books and Dvds owned by the Downtown branch.

```
(
SELECT title
FROM books
WHERE branch = "Downtown"
)
UNION (

SELECT title
FROM dvds
WHERE branch = "Downtown"
)
```

title
"No Doc" Loans
Living in State Parks
WD-40
You're Fired!
Hayward by Night

20. List the titles owned as books but not Dvds by the Bayfair branch.

```
SELECT title
FROM books b1
WHERE NOT
EXISTS (

SELECT *
FROM dvds, books
WHERE dvds.title = books.title
AND books.title = b1.title
)
AND b1.branch = "Bayfair"
```

			title
☐	✎	✗	Raccoons
☐	✎	✗	Same as Cash
☐	✎	✗	You're Fired!

AddBook.html

Source code

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.
    org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Add Book</title>
    <link rel="stylesheet" media="screen" type="text/css" href="design.css" />
  </head>
  <body>
    <h1>Add Book</h1>
    <h3>Fill in below fields and click on 'Add Book'</h3>
    <form name="AddBook" method="post" action="">
      <p>
        <label for="book">Book:</label><br />
        <input type="text" name="book" id="book" /><br /><br />
        <label for="branch">Branch:</label><br />
        <select name="branch" id="branch">
          <option  value="Bayfair">Bayfair</option>
          <option  value="CalState">CalState</option>
          <option  value="Downtown">Downtown</option>
        </select><br /><br />
        <label for="category">Category:</label><br />
        <select name="category" id="category">
          <option value="Business">Business</option>
          <option value="Consumer">Consumer</option>
          <option value="Science">Science</option>
          <option value="Travel">Travel</option>
        </select><br /><br />
        <input type="submit" name="add" value="Add Book" />
        <input type="button" name="return" value="Return" onClick="location.
            href='index.php'" />
      </p>
    </form>
  </body>
</html>
```

Stylesheet

```
h1 {
    text-align: center;
    font-weight: bold;
    border: medium solid black;
    font-size: 150%;
}

h1, input[type=submit], input[type=button] {
    color: white;
    background-color: blue;
}
```

Result

Add Book

Fill in below fields and click on 'Add Book'

Book:

[   ]

Branch:

[Bayfair   ⇕]

Category:

[Business   ⇕]

[Add Book] [Return]