

University of Washington, CSE 190 M, Spring 2008

Lab 10: Final Exam Review ANSWERS

1. JavaScript/DOM/Prototype

```
window.onload = function() {
    var tables = $$("table");
    for (var i = 0; i < tables.length; i++) {
        var rows = tables[i].getElementsByTagName("tr");
        for (var j = 0; j < rows.length; j += 2) {
            rows[j].addClassName("zebrastripe");
        }
    }
};
```

2. Ajax/XML

```
window.onload = function() {
    new Ajax.Request("rect.php", {
        method: "GET",
        onSuccess: createRects
    });
};

function createRects.ajax) {
    var rects = ajax.responseXML.getElementsByTagName("rectangle");
    for (var i = 0; i < rects.length; i++) {
        var div = document.createElement("div");
        div.style.position = "absolute";
        div.style.border = "2px solid black";
        div.style.width = rects[i].getAttribute("width") + "px";
        div.style.height = rects[i].getAttribute("height") + "px";
        div.style.left = rects[i].getAttribute("x") + "px";
        div.style.top = rects[i].getAttribute("y") + "px";
        div.style.backgroundColor = "#" + rects[i].getAttribute("colc
        $("rectanglearea").appendChild(div);
    }
}
```

3. PHP

```
<?php
header( "Content-Type: text/plain" );
$search_name = $_REQUEST[ "name" ];
$found = FALSE;

$text = file_get_contents( "employees.txt" );
$lines = explode( "\n", $text );
foreach ($lines as $line) {
    $tokens = preg_split( "/\t+/" , $line);
    if ($tokens[0] == $search_name) {
        $found = TRUE;
        $title = preg_replace( "/[^a-zA-Z]+/", "" , $tokens[2]);
        print "http://www.awesom eco.com/$title/{$tokens[1]}";
    }
}
if (! $found) {
    print "http://www.awesom eco.com/";
}
?>
```

4. SQL

```
SELECT      a1.first_name, a2.first_name, a2.last_name, m.name
FROM        movies m
JOIN        roles r1 ON r1.movie_id = m.id
JOIN        actors a1 ON a1.id = r1.actor_id
JOIN        roles r2 ON m.id = r2.movie_id
JOIN        actors a2 ON a2.id = r2.actor_id
WHERE       a1.last_name = a2.last_name
AND         a1.first_name < a2.first_name
ORDER BY    a2.last_name;
```

5. PHP+HTML+SQL

```
function display_last_names() {
    # connect to database
    $db = mysql_connect("localhost", "user", "password");
    mysql_select_db("imdb_small");

    $query = "SELECT      a1.first_name AS first1, a2.first_name AS firs
              FROM        movies m
              JOIN        roles r1 ON r1.movie_id = m.id
              JOIN        actors a1 ON a1.id = r1.actor_id
              JOIN        roles r2 ON m.id = r2.movie_id
              JOIN        actors a2 ON a2.id = r2.actor_id
              WHERE       a1.last_name = a2.last_name
              AND         a1.first_name < a2.first_name
              ORDER BY last;";
    $results = mysql_query($query);
?>
    <ol>
<?php
    $second = FALSE;
    while ($row = mysql_fetch_array($results)) {
        if (!$second && preg_match("/^[K-Z]/", $row["last"])) {
            # end first list and start second
            $second = TRUE;
?>
        </ol>
        <ol>
<?php
    }
?>
        <li><?= $row["last"] ?>, <?= $row["first1"] ?> / <?= $row
<?php
    }
?>
        </ol>
<?php
}
```