

F11 Test

PHP

1. The purpose is to fetch employees who have been assigned IDs and their corresponding line managers.
2. The output returns an error of class name already in use. Example error would be

Cannot declare class main\Debug because the name is already in use

3.

```
<?php
```

```
function find_x{
```

```
//assume arr contains these n elements
```

```
    $arr = array("Volvo","BMW","Toyota","x");
```

```
}
```

```
$limit = sizeof($arr);
```

```
for($w=0;$w<$limit;$w++){
```

```
    if($arr[$w] == 'x'){
```

```
        echo 'x Found';
```

```
    }
```

```
    elseif($arr[$w] != 'x'){
```

```
        echo "-1";
```

```
    }
```

```
}
```

MYSQL

1. Use the GROUP BY clause on the skill_name table such that other users are grouped by the skill name column.

| User_firstname | user_lastname | skill_name |
|----------------|---------------|------------|
| Kim | Simpson | PHP |
| Joe | Fred | PHP |
| Sara | Dean | PHP |
| Kim | Simpson | Perl |
| Zin | Lu | Perl |

2. Select `user_firstname`, `user_lastname`, `skill_name` from `user_skill` ;

3. Select c.* FROM companies AS c JOIN users AS u USING(companyid) JOIN jobs AS j USING(userid) JOIN useraccounts AS ua USING(userid) WHERE j.jobid = 123;

Assumptions /Optimizations;

a. Select * from `companies` as c

b. Join `users` as u ON c.`column_name` = u.`column_name`

c. Join `jobs` as j ON u.`column_name` = j.`column_name` AND j.`jobid` = 123;