

SQL Database for Beginners

Lab Exercise 6

Answer Key

- 1) Write a query returning the number of roles per initial of the role title in the role table.

Answer:

```
select left(label,1) initial, count(label)
from role
group by initial
```

- 2) Write a query returning all records in the projectperson table. The output of this query will allow you to verify the correctness of the results of the following exercise steps.

- 3) Write a query returning the number of individual staff roles assigned to each project in the projectperson table.

Answer:

```
select prid, count(rid) from
projectperson
group by prid
```

- 4) Write a query returning the number of staff assigned to each role in each project in the projectperson table.

Answer:

```
select prid, rid, count(pid) from
projectperson
group by prid, rid
```

- 5) Write a query returning the number of roles assigned to each person in each project in the projectperson table.

Answer:

```
select prid, pid, count(rid) from
projectperson
group by prid, pid
```

- 6) Modify the query written in step 4 to only return those projects and roles that have more than one person assigned to them.

Answer:

```
select prid, rid, count(pid) from
projectperson
group by prid, rid
having count(pid)>1
```

- 7) Modify the query written in step 5 to only return those persons in each project that are assigned to more than one role.

Answer:

```
select prid, pid, count(rid) from
projectperson
group by prid, pid
having count(rid)>1
```

- 8) Modify the previous query to return a list of projects in which persons are assigned to more than one role.

Answer:

```
select distinct prid from projectperson
group by prid, pid
having count(rid)>1
```

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