

SQL Database for Beginners

Lab Exercise 9

Answer Key

- 1) In this lab you will insert, update, and delete various records in the database. Be sure to always test your query components with respective select queries as shown in the lecture to verify that you will affect the desired and only the desired records. Otherwise you may damage the content of your database and be unable to execute the following exercises. Also make sure to verify the table content after execution.

- 2) Write a query adding a new project "twitter" to the project table.

Answer:

```
insert into project (label)
values('twitter')
```

- 3) Write a query assigning a budget of 150 to the just added project.

Answer:

```
update project
set budget=150
where label='twitter'
```

Pre- and post-test with:

```
select * from project
where label='twitter'
```

- 4) Write a query duplicating all roles in the role table so that the duplicates have role titles prefixed with "External".

Answer:

```
insert into role (label)
(select concat('External ',label) from role)
```

Pre -test with:

```
select * from role
where
(select concat('External ',label) from role)
```

Post-test with:
select * from role

- 5) Write a query assigning Paul Miller as “External Developer” to the project “twitter” by manually determining the required foreign key values.

Answer:

First determine the keys to be inserted into table projectperson:

```
select * from person
where firstname='Paul'
and lastname='Miller'
select * from role where label='External Developer'
select * from project where label='twitter'
```

Now insert new assignment:

```
insert into projectperson (prid, pid, rid)
values (4, 2, 7)
```

Pre- and post-test with:
select * from projectperson

- 6) Write a query promoting Paul Miller to “External Project Manager”, the assignment added by the previous query.

Answer:

First determine the keys of the roles to promote from and to:

```
select * from role
```

Now update the record inserted with the previous query:

```
update projectperson
set rid=6
where prid=4
and pid=2
and rid=7
```

Pre-test with:

```
select * from projectperson
where prid=4
and pid=2
and rid=7
```

Post-test with:
select * from projectperson

- 7) Write a query removing the assignment managed by the previous two queries.

Answer:

```
delete from projectperson
```

where prid=4
and pid=2
and rid=6

Note: remember that you updated the role in the previous query.

Pre-test with:
select * from projectperson
where prid=4
and pid=2
and rid=6

Post-test with:
select * from projectperson

- 8) Write a query removing the roles added above.

Answer:
delete from role
where left(label, 9)= 'External '

Pre-test with:
select * from role
where left(label, 9)= 'External '

Post-test with:
select * from role

- 9) Write a query removing the project "twitter".

Answer:
delete from project
where label='twitter'

Pre-test with:
select * from project
where label='twitter'

Post-test with:
select * from project

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