

Started on Monday, 2 October 2023, 1:53 PM**State** Finished**Completed on** Monday, 2 October 2023, 1:55 PM**Time taken** 1 min 48 secs**Question 1**

Correct

Marked out of 1.00

The correct procedure in case of fire is ...

- ☐ a. 1. git pull; 2. git commit; 3. leave building
- ☐ b. 1. git merge; 2. git prune; 3. hide under desk
- ☐ c. 1. git rebase; 2. git merge; 3. leave building
- ☒ d. 1. git commit; 2. git push; 3. leave building ✓
- ☐ e. 1. git rebase; 2. git merge; 3. panic

Question 2

Correct

Marked out of 1.00

Which of the following combinations of git command (left-hand side) and description (right-hand side) is/are correct?

- ☐ a. git checkout BRANCHNAME -> create new branch and checkout
- ☒ b. git branch BRANCHNAME -> create new local branch ✓
- ☐ c. git branch -d BRANCHNAME -> show overview of local branches and current branch
- ☐ d. git checkout -b BRANCHNAME -> checkout existing local branch
- ☐ e. git branch -> delete local branch

Question 3

Correct

Marked out of 1.00

Which of the following statements about git pull requests is/are correct?

- ☐ a. The command git request-pull automatically performs a git push
- ☐ b. Pull requests are used to ask other developers if they have already implemented a feature yet
- ☒ c. Pull requests are used to tell others about changes that you have pushed to a branch in a repository ✓
- ☐ d. The command git request-pull automatically performs a git merge

Question 4

Correct

Marked out of 1.00

Which of the following are the most commonly used strategies for git merge?

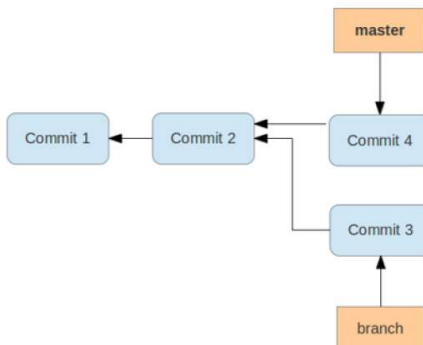
- ☐ a. Back Propagation
- ☒ b. Recursive ✓
- ☐ c. Backtrace
- ☐ d. Forward Propagation
- ☐ e. Iterative
- ☒ f. Fast-forward ✓

Question 5

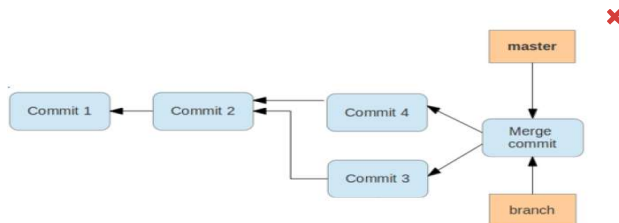
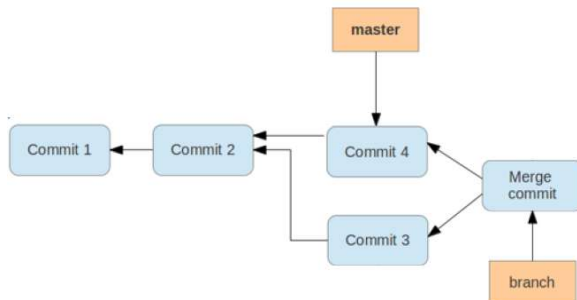
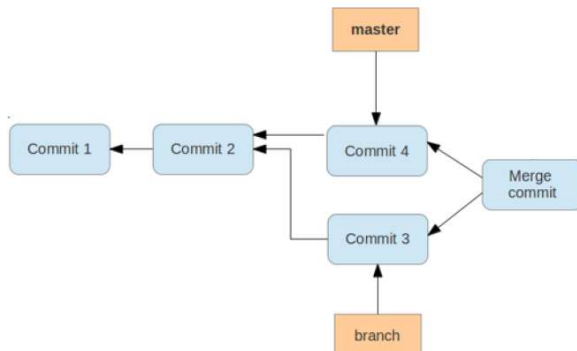
Incorrect

Marked out of 1.00

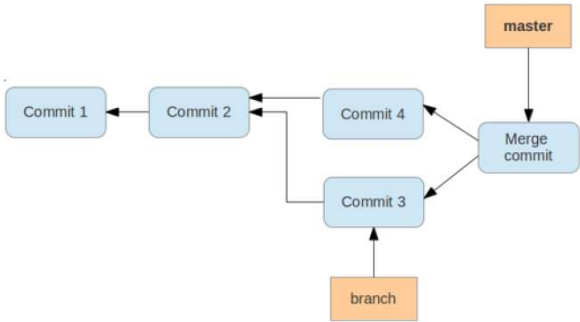
This is the current repository before a 3-way-merge. "Commit 3" is merged with the master branch using the commands "git checkout master" and "git merge branch".



How does the repository look after the merge? Select the correct figure.

☒ a.☐ b.☐ c.

d.



Started on Monday, 2 October 2023, 1:56 PM**State** Finished**Completed on** Monday, 2 October 2023, 1:58 PM**Time taken** 1 min 35 secs**Question 1**

Correct

Marked out of 1.00

Which of the following statements about the states of git is/are correct?

- ☐ a. "committed" means that the data is safely stored in the *remote* repository
- ☐ b. "staged" means that you have marked a committed file as not final (should be used in staging environment only)
- ☒ c. "staged" means that you have marked a modified file in its current version to go into your next commit snapshot ✓
- ☒ d. "modified" means that you have changed the file but have not committed it to your database yet ✓
- ☒ e. "committed" means that the data is safely stored in your *local* database ✓
- ☐ f. "modified" means that you have changed the file and have committed it to your database

Question 2

Correct

Marked out of 1.00

Which of the following combinations of git command (left-hand side) and description (right-hand side) is/are correct?

- ☐ a. git branch -> delete local branch
- ☐ b. git checkout BRANCHNAME -> create new branch and checkout
- ☐ c. git branch -d BRANCHNAME -> show overview of local branches and current branch
- ☐ d. git checkout -b BRANCHNAME -> checkout existing local branch
- ☒ e. git branch BRANCHNAME -> create new local branch ✓

Question 3

Correct

Marked out of 1.00

The correct procedure in case of fire is ...

- ☐ a. 1. git merge; 2. git prune; 3. hide under desk
- ☐ b. 1. git pull; 2. git commit; 3. leave building
- ☒ c. 1. git commit; 2. git push; 3. leave building ✓
- ☐ d. 1. git rebase; 2. git merge; 3. panic
- ☐ e. 1. git rebase; 2. git merge; 3. leave building

Question 4

Correct

Marked out of 1.00

Which of the following are the most commonly used strategies for git merge?

- ☐ a. Forward Propagation
- ☒ b. Recursive ✓
- ☒ c. Fast-forward ✓
- ☐ d. Back Propagation
- ☐ e. Backtrace
- ☐ f. Iterative

Question 5

Correct

Marked out of 1.00

Which of the following statements about git pull requests is/are correct?

- ☐ a. Pull requests are used to ask other developers if they have already implemented a feature yet
- ☐ b. The command git request-pull automatically performs a git push
- ☐ c. The command git request-pull automatically performs a git merge
- ☒ d. Pull requests are used to tell others about changes that you have pushed to a branch in a repository ✓

Started on Wednesday, 11 October 2023, 12:41 AM

State Finished

Completed on Wednesday, 11 October 2023, 12:43 AM

Time taken 1 min 56 secs

Question 1

Correct

Marked out of 1.00

Which of the following statements about this SQL is/are true?

SELECT UserId, Name, Password **FROM** Users **WHERE** UserId = 111 **or** 1=1;

- ☐ a. This SQL statement is not valid
- ☐ b. This SQL statement returns UserId, Name and Password *only* for the User with UserId=111
- ☐ c. This statement is only valid when used inside a C# application
- ☒ d. This SQL statement returns UserId, Name and Password for all users ✓
- ☐ e. This SQL statement returns UserId, Name and Password *only* for the User with UserId=111 AND UserId=1

Question 2

Correct

Marked out of 1.00

Which of the following statements about SQL parameters are correct?

- ☐ a. Since parameters are initialized empty string manipulation is possible
- ☒ b. Parameters are represented in the SQL statement by the "@" marker ✓
- ☐ c. SQL parameters are not available when used in C# applications
- ☐ d. SQL parameters are dangerous and open to exploitation by SQL injection

Question 3

Correct

Marked out of 1.00

Which of the following answers depict types of SQL injection attacks?

- ☒ a. Batch or stacked statements ✓
- ☐ b. C# based instructions
- ☐ c. HTTP DDOS attacks
- ☒ d. Resource consumption ✓
- ☒ e. Call functions like xp_cmdshell ✓

Question 4

Correct

Marked out of 1.00

Which of the following answers are correct PostgreSQL statements?

- ☐ a. update mylist set 'myvalue':='update'
- ☒ b. update mylist set myvalue='update to first' where myid=2; ✓
- ☒ c. select * from mydatabase.public.mylist where myid > 1; ✓
- ☒ d. insert into mylist (myid, myvalue) values (1,'first'); ✓
- ☐ e. select * from public-> mylist;

Question 5

Correct

Marked out of 1.00

Which of the following commands is/are valid for creating a database in PostgreSQL?

- ☒ a. CREATE DATABASE psqldatabase ✓
- ☐ b. SUDO CREATE DATABASE
- ☒ c. create database mydb ✓
- ☐ d. CREATE MYSQL DATABASE mydb

Started on Wednesday, 11 October 2023, 12:44 AM**State** Finished**Completed on** Wednesday, 11 October 2023, 12:45 AM**Time taken** 1 min 35 secs**Question 1**

Correct

Marked out of 1.00

Which of the following statements about database management tools is/are correct?

- ☐ a. DataGrip is a web-based tool
- ☒ b. MySQL Workbench is a fat-client ✓
- ☐ c. MySQL Workbench is a web-based tool
- ☒ d. DataGrip is a fat-client ✓
- ☒ e. pgAdmin is a web-based tool ✓

Question 2

Correct

Marked out of 1.00

The basic operations of persistent storage are often abbreviated as:

- ☐ a. GEAR
- ☒ b. CRUD ✓
- ☐ c. ROOT
- ☐ d. GROOVE
- ☐ e. MOOD

Question 3

Correct

Marked out of 1.00

Which of the following need(s) to be defined in order to establish a connection/install a database?

- ☐ a. C# compiler
- ☐ b. IDE
- ☐ c. GIT repository
- ☒ d. Port ✓
- ☒ e. Host ✓

Question 4

Correct

Marked out of 1.00

Which of the following statements about SQL Injection is/are correct?

- ☒ a. SQL injection usually occurs when you ask a user for input, like their username/userid, and instead of a name/id, the user gives you an SQL statement that you will unknowingly run on your database ✓
- ☒ b. SQL injection is the placement of malicious code in SQL statements, via input ✓
- ☒ c. Possible consequences of SQL injection are: secure data leaks, secure data is changed, executing statements in app-context removes the need of a password, user data can be manipulated (password-change) ✓
- ☐ d. SQL injection is a technique in C# to use native MySQL language inside of code

Question 5

Correct

Marked out of 1.00

Which of the following commands is used for showing databases in PostgreSQL?

- ☐ a. `$sql->showDatabases();`
- ☐ b. `\q`
- ☐ c. `\dt`
- ☒ d. `\l+` ✓