

AWS re/Start KC Çözümleri

Hatice DİKMEN

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223-[PF]-KC - Python for System Administration

Which function is equivalent to the deprecated `os.system()` function in Python V3?

`open()`

`subprocess.run()`

`os.uname()`

`json.load()`

What is a goal of system administration?

Track source code versions.

Find defects in applications.

Ensure system stability.

Design database schemas.

What is a common task for system administrators (SysAdmins)?

Installing new hardware or software

Creating a cloud solution framework to migrate a workload to the cloud

Troubleshooting network connectivity between the company's data center and the corporate office

Developing and deploying patches during maintenance windows

228-[LX]-KC - Linux Command Line

What is the name of the default Linux shell?

Bat

Bash

C shell

Korn

Which keyboard key automatically completes commands in the default Linux shell?

CTRL

ENTER

SHIFT

TAB

Which keyboard key retrieves the last command that you entered in the default Linux shell?

BACKSPACE

UP arrow

INSERT

ESC

Which command displays the name of the account that you are logged in as in the default Linux shell?

login

wc

whoami

history

Which command displays the name of the computer that you are logged in to in the default Linux shell?

hostname

cal

host

id

230-[LX]-KC - Users and Groups

Which statements apply to setting user passwords? (Select TWO).

Passwords must be eight characters in length.

Passwords are set with the passwd command.

Users can reset their own passwords.

Passwords must be entered three times.

Password characters must all be lowercase.

Which permissions does a standard user have? (Select TWO).

Control any service

Manage any account

Manage the Linux kernel

Control any files that the user owns

Access any files that the user has permissions for

Which command gives you full administrative privileges and allows you to switch to the root user's environment?

bash

useradd

sudo

su

Which command allows you to add a user to a group?

usermod

groupmod

sudo

groupadd

Which statement is a best practice for using the root account?

Share the root account password with all users, and monitor account usage by using logs.

Always log in as a standard user, and switch the user to the root account only when you must elevate permissions.

Allow only help desk users to use the root account.

Always use the root account, and switch to a standard account only when you test the system.

232-[LX]-KC - Editing Files

What is the default text editor for virtually all Linux distributions?

Notepad

Vim

gedit

Visio

A systems administrator is editing a text file in Vim and is in the Insert mode. The administrator wants to exit the Insert mode and return to the Command mode. What keyboard key should the administrator press?

ENTER

SHIFT

TAB

ESC

A developer is editing a file in Vim, and they want to save the file and exit the editor. Which command should the developer use?

i

/g

:wq

X

A systems operator is editing a file in Vim, and they want to exit the editor without saving the file. Which command should the operator use?

ESC

:w

:x

:q!

Which Linux text editor has a graphical user interface (GUI)?

gedit

vi

nano

Vim

234-[LX]-KC - Working with the File System

Which statements about Linux file names are true? (Select TWO.)

File names are case sensitive.

Multiple files with the same name can exist in a directory.

File names can contain spaces.

Extensions are optional.

Extensions are automatically mapped to applications.

Which directory contains a user's personal files by default?

/dev

/home

/etc

/var

Which command displays the absolute path to the user's current location in the file system?

cat

cp

pwd

tail

Which command changes the current working directory to a different directory?

mv

mkdir

rm

cd

A systems administrator must see a list of all files in the /var/log directory in long format. Which command and option should the administrator use?

cat -names /var/log

cd /var/log

ls -la /var/log

/var/log -la -ls

236-[LX]-KC - Working with Files

Which search options can be used with the find command? (Select TWO.)

File name

Operating system

File type

Path

File size

A Linux administrator downloaded a file from the internet. The administrator believes that the file is corrupted. Which Linux command can the administrator use to check whether a file is corrupted?

grep

cksum

find

diff

A Linux administrator must compare and display the outputs of two different files. Which Linux command can the administrator use to compare the file outputs?

diff

df

find

hash

Which statement about symbolic links is true?

Symbolic links can't link to any directory.

Symbolic links point to actual files in any directory.

Symbolic links point to a hard link, instead of the actual file.

If a symbolic link links to a file and the file is deleted, the link will still work.

Which option for the tar command enables a user to create a tarball?

-c tarball.tar

-xf tarball.tar

-v tarball

-cvf tarball.tar

238-[LX]-KC - Managing File Permissions

Which command allows the user to set permissions for files and directories?

chgrp

chmod

umask

su

Which of the following is an example of Absolute mode?

chmod a=r filename

chmod filename

chmod

chmod 757 filename

Which command displays the permissions for files and directories?

ls -a

ls -r

ls -l

ls

Which command is used to change the user or group of a file or directory?

chown

chmod

umask

su

Which statement reflects the principle of least privilege?

Give a small number of users the most amount of access to all files.

Give no access to any files for a large number of users, and give only the network engineer access to all files.

Give the least number of users the least amount of file access first, and grant more permissions only when the user has a need.

Give access to all groups, and each group can decide which individual has access to each file.

240-[LX]-KC - Managing Processes

A software developer is having issues with a process that runs on a Linux host. The application is not responding. The developer decides to end the process by using the kill command, which requires the process ID (PID). Which command can the developer use to retrieve the PID?

`ps -ef | grep <process_name>`

`ps <process_name>`

`jobs <process_name>`

`echo <process_name>`

Which commands list the process IDs (PIDs) for the running processes on a Linux host? (Select TWO.)

`ps`

`echo`

`Crontab`

`pidof`

`ls`

A systems administrator wants to schedule some tasks so that they run automatically. Which commands enable the administrator to schedule automatic tasks? (Select TWO.)

`crontab`

`at`

`ps`

`jobs`

`time`

Which kill command signal will immediately stop a process with NO graceful exit?

-9 SIGKILL

-15 SIGTERM

-19 SIGSTOP

-31 SIGSYS

Which command can the administrator use to check disk space on a Linux host?

top

ps -ef

jobs

df

242-[LX]-KC - Managing Services

Which service can AWS customers use to monitor AWS services and resources?

Amazon CloudWatch

Amazon Elastic Compute Cloud (Amazon EC2)

Amazon Simple Notification Service (Amazon SNS)

AWS Control Tower

Which command lists all active services?

systemctl

systemctl list-units --type=service

systemctl list-units --type=service --state=active

systemctl status

Which command displays the usage of virtual memory?

vmstat

free

lshw

fdisk

Which command displays the amount of free disk space?

df -h

df -b

df -a -h

df -l

Which system-performance command monitors how much physical memory is available?

lscpu

cat /proc/partitions

vmstat

free

299-[DF]-KC - Introduction to Databases

What is a database?

A collection of data that is organized into files called columns

A collection of data that is organized into files called rows

A collection of data that is organized into tables

A collection of data that organized into files called datasets.

Which database attributes accurately represent elements of a relational database? (Select TWO.)

Tables

Key-value pairs

Columns

Horizontal scaling

Forms

What are the primary features of a NoSQL database? (Select TWO.)

NoSQL databases use data models that are not based on relational tables

NoSQL databases work well for customer relation management (CRM) applications or enterprise resource planning (ERP) applications.

NoSQL databases have a flexible schema.

NoSQL databases use vertical scaling.

NoSQL databases can run transactional or analytical queries.

Which of the following is not a type of anomaly?

Structure anomaly

Insertion anomaly

Update anomaly

Deletion anomaly

What is the primary benefit of using database as a service (DBaaS)?

These databases are used for processing only small datasets.

These databases increase the cost of installing and maintaining the servers.

These databases can be modified so that administrators can perform management tasks,

such as server provisioning, patching, setup, configuration, backups, or recovery.

These databases reduce the cost of installing and maintaining the servers.

300-[DF]-KC - Data Interaction and Database Transaction

A customer is ordering a product from an online retailer. If the payment for the transaction is successful, the Orders table must be updated so that a new order row is inserted. The stockTable table must also be updated so that product rows are removed for the purchased products. If one step fails, then all steps fail.

Which type of database transaction property does this scenario represent?

Atomicity

Consistency

Isolation

Durability

The daily duties of database administrators include all of the following except which option?

Design, implement, administer, and monitor data in database systems

Create different applications that can receive data

Use different SQL commands to interact with tables in databases

Ensure consistency, quality, and security of the database

What is a database transaction?

A transaction is the reproduction of one or more changes that are performed on a database.

A transaction is a web server running a webpage that gathers information from the server.

A transaction is an application written with Java that is used to embed SQL statements in the application code.

A transaction is an application that is installed on the user computer or the application server.

Which of the following options describes a successful transaction on a database?

A transaction on a database is successful if the transaction is active.

A transaction on a database is successful if the transaction is partially committed.

A transaction on a database is successful if the transaction is committed.

A transaction on a database is successful if the transaction is ended.

301-[DF]-KC - Creating Tables and Learning Different Data Types

Which of the following options describes a successful transaction on a database?

A transaction on a database is successful if the transaction is active.

A transaction on a database is successful if the transaction is partially committed.

A transaction on a database is successful if the transaction is committed.

A transaction on a database is successful if the transaction is ended.

What is the function of the SELECT statement in structured query language (SQL)?

Retrieve data from a table

Revoke permissions from a user

Add or delete columns in a table

Modify rows in a table

Which statement describes a foreign key?

It is a reference to a column in another table.

It includes words that structured query language (SQL) reserves and have predefined data types.

It is a purposeful way to name objects or items in a database.

It enforces limits on the types of data that can go in a table.

Which statement defines referential integrity?

Foreign key values must match an existing primary key value.

The primary key value matches an existing foreign key.

Rules and limitations are imposed by the database management system (DBMS).

Columns automatically have foreign key and primary key constraints.

What is the purpose of data manipulation language (DML) statements in structured query language (SQL)?

They are used to view, add, change, or delete data in a table.

They control access to the data in a database.

They perform queries on the data within schema objects.

They create and modify the structure of a database.

302-[DF]-KC - Inserting Data into a Database

What is the most common use of a comma-separated values (CSV) file?

To create and modify the structure of a database

To import data into or export data out of databases and spreadsheets

To delete records in an existing table

To remove a table definition and all the table data

What is the function of a NULL value in structured query language (SQL)?

It is used to represent a missing value.

It is used to provide a description of the specified table or view.

It is a NULL value that represents a Boolean value.

It is a constraint that forces a column to not accept NULL values.

How is a comma-separated values (CSV) file validated before it is imported into a database?

Confirm that the structure of the data in the file matches the number of columns in the table and the type of data in each column.

Confirm that each piece of information in the file is placed in a new row.

Confirm that values are enclosed with single quotation marks (' ') for character values or date values.

Verify that the information in the file is formatted in several columns.

Change every character in a string to lowercase.

What is the purpose of the CONCAT function in structured query language (SQL)?

It combines strings from several columns and puts them together in one line.

It returns the number of rows in a table.

It removes characters from the beginning and end of a string.

It creates a substring with a specified length.

What are two ways to use the INSERT INTO statement? (Select TWO.)

To add new data to a database

To create a new table

To add new data to a table with a different number of headers

To add a new record to a table

To clean the data in a comma-separated values (CSV) file

303-[DF]-KC - Selecting Data from a Database

Which statement describes the purpose of a WHERE clause in a SELECT statement?

The WHERE clause uses a column identifier to organize the result-set data into groups.

The WHERE clause requests only specific rows from a table.

The WHERE clause sorts query results by one or more columns in either ascending or descending order.

The WHERE clause provides an alias for each column or expression.

Which clause is required to complete a SELECT statement?

ORDER BY

HAVING

GROUP BY

FROM

Which term describes what the WHERE clause represents in the SELECT-FROM-WHERE statement?

Condition

Constraint

Query

Operator

What does an asterisk (*) do in a structured query language (SQL) query?

Select all keys

Select all tables

Select all rows

Select all columns

A database developer created a complex SELECT query. They want to ensure that other developers can understand each line in this query.

What is the correct way for the developer to create a single-line comment within the query?

-- comment

/* comment */

comment

!--- comment ---

304-[DF]-KC - Performing a Conditional Search

Which logical operator selects values in a given range?

BETWEEN

SOME

LIKE

AND

Which logical operator determines whether a specific character string matches a specified pattern?

SOME

LIKE

WHERE

IN

What is the purpose of using aliases in structured query language (SQL) statements?

Aliases create temporary names for constraints.

Aliases create temporary names for rows.

Aliases create temporary names for columns.

Aliases create temporary names for queries.

Which value is tested for by the IS NULL condition in structured query language (SQL)?

NULL value

NOT NULL value

INT value

Boolean value