Database fundamentals Review

DBMS vs RDBMS

Terminologies

Entity

Attribute

Relationship

Tuple

Anomaly (abnormality)

Normalization

1NF

2NF

3NF

BCNF

Database Objects

Table

View

Functions

Stored Procedure

Trigger

Index

Primary Index (1 primary Index)

Secondary Index (Multiple Primary Index)

Constraints

Not Null

Unique

Primary Key

Default key

Check

Foreign key

SQL

DML – Select, insert, Update, delete

DDL- create, alter, drop, truncate

DCL- grant, deny, and revoke

TCL – commit, rollback, savepoint

Joins

Inner join

Left-outer

Right-outer

Full

Cross join

Self-join

Equi vs non equi

Products

Oracle

SqlServer

DB2

MySQL

FoxPro

Ms Access

Transaction- ACID

Windows Essentials

Domain –Domain Tree-Forest-site-Replication

DC-RWDC-RODC

Protocols-Port (80, 53, 25,110)

AD-DS (nts.edit)

FSMO (flexible single master operation) - 5

PDC (Primary Domain controller)

Forest Wide role –Domain Naming, Schema Master

Domain wide

RID

Infrastructure

Group-Policy

User vs Computer

.msi

2 polices

User defined

Starter GPO (Create new Policy)

DNS

A

AAAA

CNAME (alias)

MX (MailXchange)

PTR ()

SRV ()

DHCP

WDS

Boot Vs Install (.wim)

Transport sever

Deployment server

WSUS

SCCM

IIS

Security – Firewall –EFS (To protect file and folder) – Bit locker

Zone

Primary Zone

Secondary Zone

Stub zone

Linux Essentials

Anaconda

Kickstart

DHCP-PXE

Filesystem Management

Special Permission

Suid

Sgid

Sticky bit

Umask

ACL

User Management

Root

Sudoer (0)

Software Management

Rpm

Rpm –qa

Rpm –qip firefox.rpm

Rpm –ivh firefox.rpm

Rpm –ev adsdsd.rpm

Yum

Disk Management

Fdisk

Mount

Lvm –pv-vg-lv

/etc/fstab

Process management

Ps –ef

Kill -15,-9

Top

Nice

Renice

Troubleshooting

Ping

Ifconfig

Fsck

Host-dig

Single usermode

Security

Iptables

Selinux

Windows Fundamentals

Post

MBR vs GPT

BootLoader

BCD -bcdedit

FAT32 vs NTFS

Process-Threads-Processor (CISC vs RISC)- Hyper thread

Multiprocessing

HAL

Business Communication

Hello salutation is used for all type of audience (any senior)

Hi salutation is used for peer

Dear used for team not for individual

Opening Statement denote purpose the reason/purpose of sending email

Closing Statement denotes action.

Examples: This is to keep informed about the results after testing the application

BCC

Feature: If u put any copy of email in bcc column the will not be visible to cc or to

Phishing

Communication

It is a process of influencing someone or others to achieve objective or objectives

Rate of speech

Fluency

Emotional intelligence

Internal and external customers

Verbal nods short words of acknowledgement used to show

Profanity- abusive language

Network Essentials

Subnetting

Routing Protocols

Administrative Details

TCP vs UDP

DNS

port numbers of all protocol

Router-Switch Configuration

MOTD banner

Login banner

Banner motd msg

Copy run start

Ospf, RIP, EIGRP

Redistribution

Security

ACL

Standard vs Extended

Port Security

Switch port security maximum 1

Switch port security violation

No default routing protocol

VLAN (5 vlan , 5 broadcast domain)– VTP (802.1q)

NAT static dynamic PAT

STP

WAN protocols frame relay, hdlc ,ppp

Spanning tree port fast immediate network