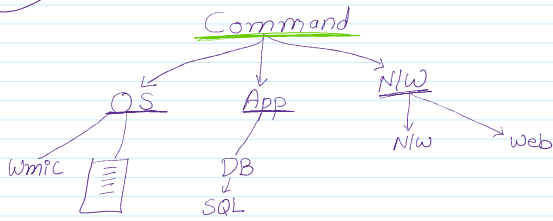
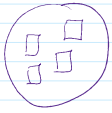


# SQL

WMIC

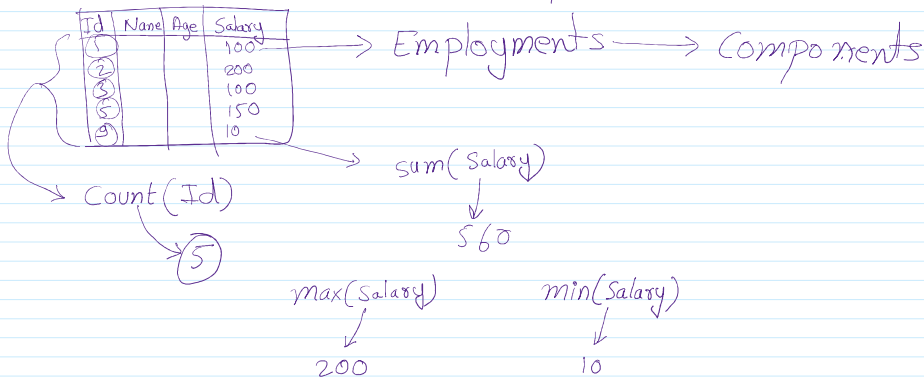
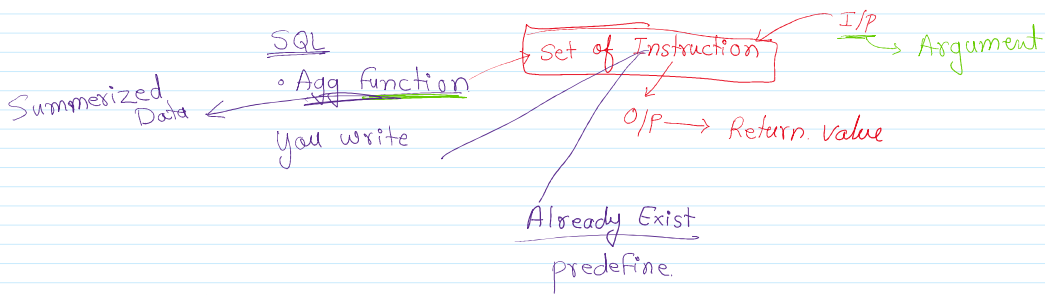


## SQL

- Agg func
  - Order By
  - Joins
  - Sub Queries
- } PL/SQL

## Linux

- File Management
  - Permission
  - User
- } Script



## Order By (SQL Clause)

```

Select C1, C2, ...
From table1
Order By C3 Asc
Order By C3 Desc
    
```

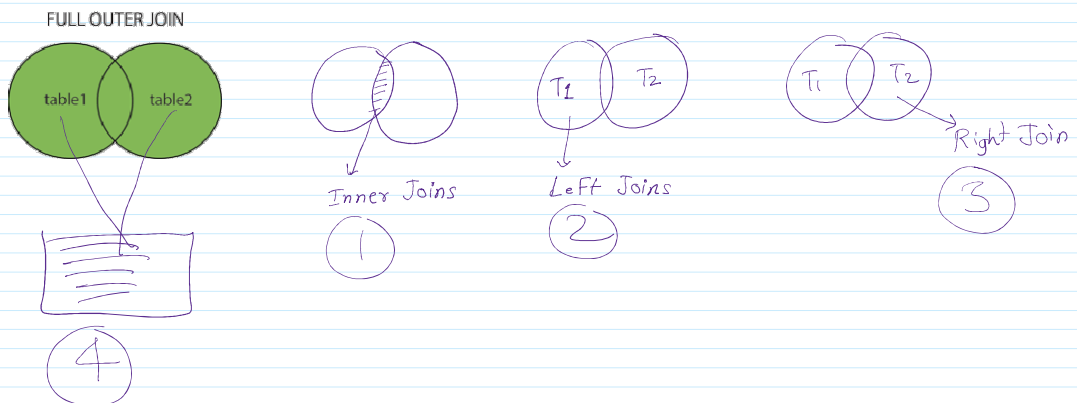
```

Group By
Select C1
From t1
Where Cond1
Group By C3
    
```

```

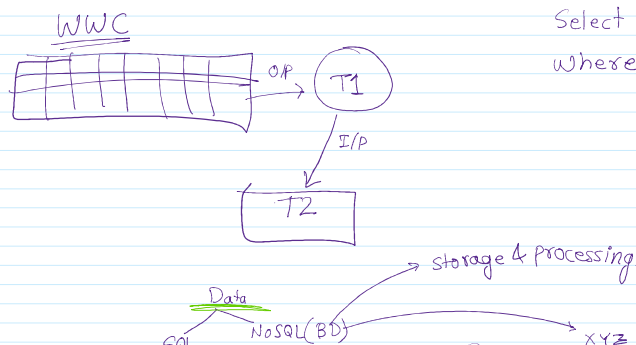
SELECT COUNT(CustomerID), Country
FROM Customers
Group By Country
Order By Count(CustomerID) Desc
    
```

Joins  
- Collect data from 2/More tables using Cond



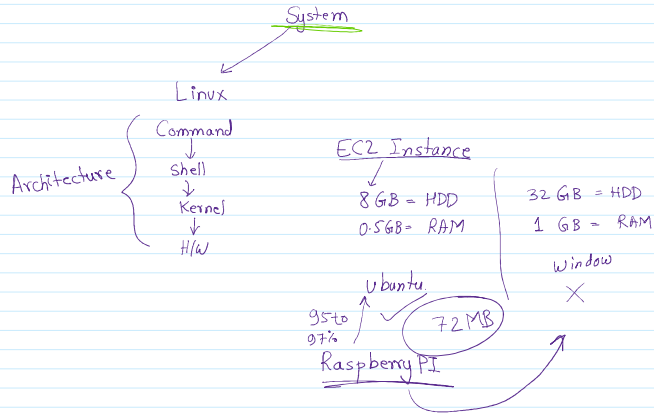
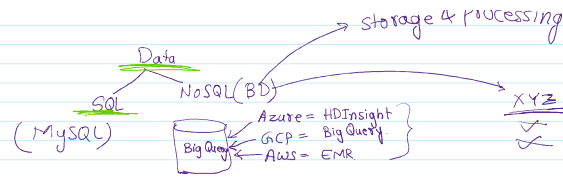
```

Select C1, C2, ...
From t1
Inner Join t2
ON Cond
    t1.C1 = t2.C5
    
```



```

Select ---- from t2
Where LP > (select price from t1)
            Sub Query
    
```



Java → bin = Binary  
 lib = Library  
 include = Including  
 src = Source Code

/etc/ hosts = Local DNS (write FQDN)

~/.bashrc =

- Current User Home directory.

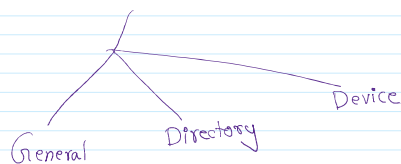
```
cd /home/Ubuntu
cd ~
```

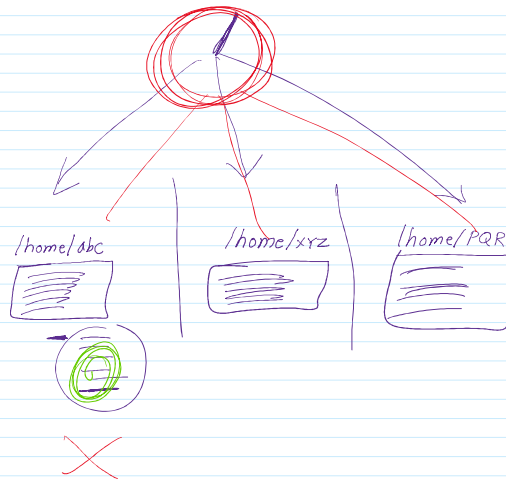
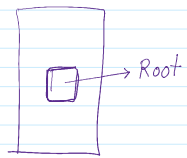
%Userprofile%

/ → Forward Slash (Linux + W)  
 \ → Backward Slash (Window)

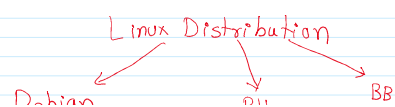
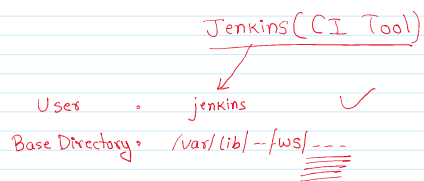
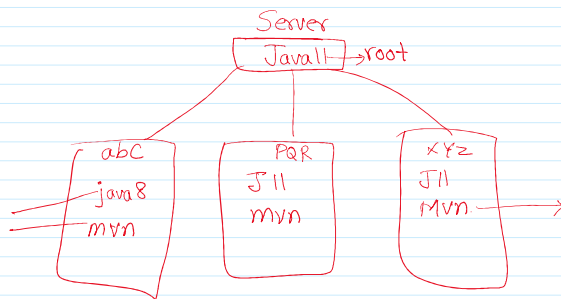
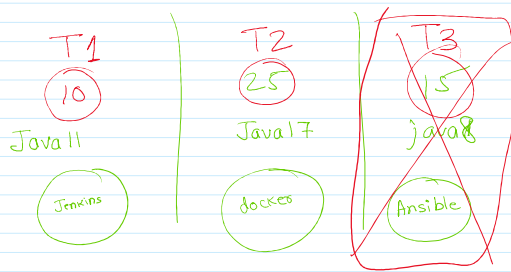
Cd X Linux  
 cD ✓ Window

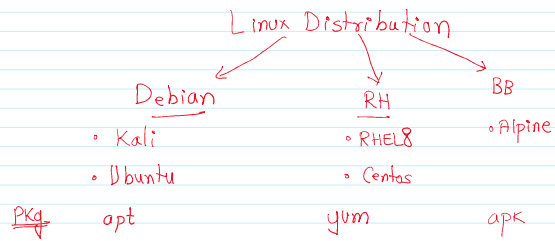
/ → Linux





## Server





- Kali
- Ubuntu

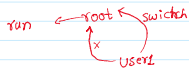
### Basic Command

- cd      mkdir      rmdir
- ls      touch      rm

### Editor

- Vi → nano

$P_1 = 10 \text{ yrs}$   
 $P_2 = 5$   
 $P_3 = 2$



```

Powershell
=====
# Set Key File Variable:
New-Variable -Name Key -Value "$env:UserProfile\.ssh\id_rsa"

# Remove Inheritance:
Iccls $Key /c /t /Inheritance:d

# Set Ownership to Owner:
# Key's within $env:UserProfile:
Iccls $Key /c /t /Grant $(env:UserName):F

# Key's outside of $env:UserProfile:
TakeOwn /F $Key
Iccls $Key /c /t /Grant:r $(env:UserName):F

# Remove All Users, except for Owner:
Iccls $Key /c /t /Remove:g Administrator "Authenticated Users"
BUILTIN\Administrators BUILTIN\Everyone System Users

# Verify:
Iccls $Key

# Remove Variable:
Remove-Variable -Name Key

CMD
===
::# Set Key File Variable:
Set Key="%UserProfile%\\.ssh\mujahed.pem"

::# Remove Inheritance:
Iccls %Key% /c /t /Inheritance:d

::# Set Ownership to Owner:
:: # Key's within %UserProfile%:
Iccls %Key% /c /t /Grant %UserName%:F
  
```

permission  
in  
Linux (chmod)

\$ Chmod 400 m.pem

Window

```

:: # Key's outside of %UserProfile%:
TakeOwn /F %Key%
Icacs %Key% /c /t /Grant:r %UserName%:F

::# Remove All Users, except for Owner:
Icacs %Key% /c /t /Remove:g "Authenticated Users" BUILTIN
\Administrators BUILTIN Everyone System Users

::# Verify:
Icacs %Key%

::# Remove Variable:
set "Key="

```

GUI:  
 =====  
 [File] Properties → Security → Advanced  
 Owner: The key's user  
 Permission Entries: Remove all except for the key's user  
 Set key's user to Full Control

\$ ssh-keygen

# SSH is not recognized Internal / External Command

1. Open Powershell as an Administrator
2. Execute Powershell Commands:
  - a. \$ (New-Object Security.Principal.WindowsPrincipal([Security.Principal.WindowsIdentity]::GetCurrent())).IsInRole([Security.Principal.WindowsBuiltInRole]::Administrator)

From <[https://learn.microsoft.com/en-us/windows-server/administration/openssh/openssh\\_install\\_firstuse?tabs=gui](https://learn.microsoft.com/en-us/windows-server/administration/openssh/openssh_install_firstuse?tabs=gui)>

[https://learn.microsoft.com/en-us/windows-server/administration/openssh/openssh\\_install\\_firstuse?tabs=gui](https://learn.microsoft.com/en-us/windows-server/administration/openssh/openssh_install_firstuse?tabs=gui)

\$ ssh -i key.ext Username@IP  
 @ DNS  
 public  
 private