Primary DNS It is the master copy of all zones information. It is read/write copy.
Slave DNS It is Backup of master's zones. It is read only copy.
serial42 Based on this serial number only, the zone transfer between master DNS and slave DNS will be occurred.
Generally the serial no will be displayed in (yyyyrnmdd s.no) ex: 2007092201
Refresh(3H) For every 3 hours the secondary DNS contacts the primary DNS.
Retry (15m) Retry every 15 minutes. If failure of the previous request occurs.
Expiry This value is the max limit the information stored in the primary.
Minimum (ID) Storage of information in one day in cacheDNS.

Configure the Primary DNS :
Note:
Installation of package, configuring hostname, configuritig first & second configuration files (or) same at primary DNS.

At Primary DNS Side :
Goto zones location : #cd /var/named/chroot/var/named (configure the india.for flz)
vi india.for
add IN NS sun2.india.com

Configure India RLZ file:
vi india.rev
Here also add IN NS sun2.india.com

Restart the service
service named restart

Configure the slave DNS
Install the packages
yum install bind* caching-nameserver* -y

Open the first configuration file :
vi /etc/named.caching-namcserver.conf
Linsten-on port 53 {127.0.0.1; 192.168.0.2; }; (# line no. 15)
allow -query { local host ; 192.168.0.0/24; } ; (# line no. 23)
match-clients { local host ; 192.168.0.0/24; }; (# line no. 32)

Open the second config file:
vi /etc/named.rfc1912.zones

goto last line
```
        zone "india.corn" IN {
           type slave;
           file "slaves/india.for.bkp";
           masters{ 192.168.0.1; }; ( here mention maste DNS Ip)
           };
Zone "0.168.192.in-addr.arpa" IN {
      type slave;
        file "slaves/india.rev.bkp";
        masters 192.168.0.1; }; (here mention master DNS Ip)
        };
```

Create the Directory slaves under zones location :
cd /var/named/chroot/var/named

```
# mkdir /slaves

Add the DNS IP address  :
# vi /etc/resolv.conf
  nameserver 192.168.0.1
  nameserver 192.168.0.2
wq!

Restart the service
# service named restart

Digging :
# dig sun1.india.com
# dig sun2.india.com
# dig-x 192.168.0.1
# dig-x 192.168.0.2

Note :- Similarly check in nslookup also.
# nslookup
>sun1.india.com
>exit

Test with pinging :
# ping sun1.india.com
# ping sun2.india.com
```