

# IE2080 Database Systems Administration 2<sup>nd</sup> Year, 1<sup>st</sup> Semester

### Assignment

## Assignment – Part 1

Submitted to

Sri Lanka Institute of Information Technology

In partial fulfillment of the requirements for the Bachelor of Science Special Honors Degree in Information Technology

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**Declaration** 

I certify that this report does not incorporate without acknowledgement, any material

previously submitted for a degree or diploma in any university, and to the best of my

knowledge and belief it does not contain any material previously published or written by

another person, except where due reference is made in text.

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#### **Screenshots**

#### 1. Install require dependencies for RDBMS

```
Code: yum install -y binutils.x86_64 compat-libcap1.x86_64 gcc.x86_64 gcc-c++.x86_64 glibc.i686 glibc.x86_64 \ glibc-devel.i686 glibc-devel.x86_64 ksh compat-libstdc++-33 libaio.i686 libaio.x86_64 libaio-devel.i686 libaio-devel.x86_64 \ libgcc.i686 libstdc++.i686 libstdc++.x86_64 libstdc++-devel.i686 libstdc++-devel.x86_64 libXi.i686 libXi.x86_64 \ libXtst.i686 libXtst.x86_64 make.x86_64 sysstat.x86_64
```

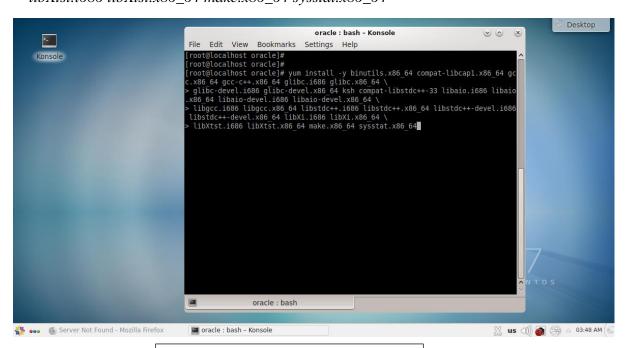


Figure 1.1: Code for install dependencies

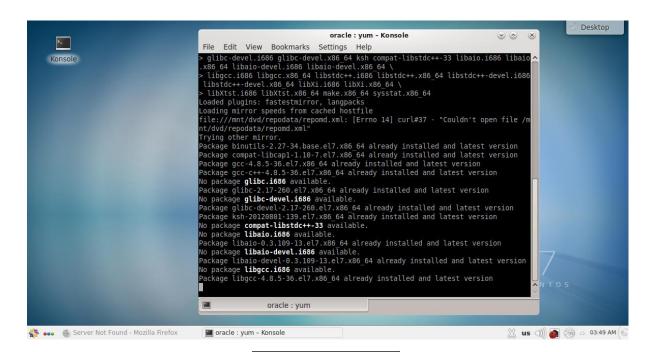


Figure 1.2: result

2. Create user account called "Oracle" and groups "oinstall", "dba" for Oracle

Adding group "oinstall" and "dba" Code: groupadd oinstall
Groupadd oinstall

Adding user "oracle"

code: useradd -g oinstall -G dba oracle

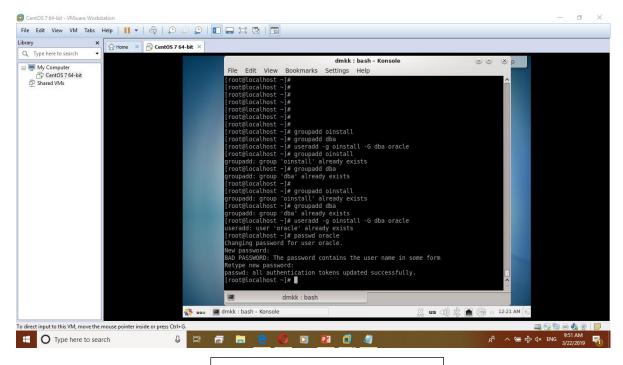


Figure 2: creating user account

3. Set a password for created oracle user account

Setting password for oracle code: passwd oracle

```
[root@localhost ~]# passwd oracle
Changing password for user oracle.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]# ■
```

Figure 3: Setting Oracle user password

- 4. Add and apply required kernel parameters to /etc/sysctl.conf file
- 4.1 Open Sysctl.conf from vi editor (Figure 4.1)

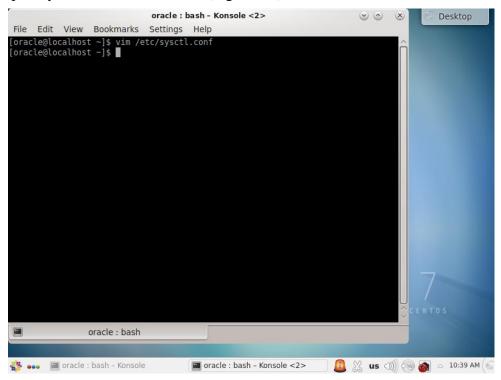


Figure 4.1: Open Sysctl.conf in vi editor

#### 4.2 – Add Kernel Parameters :

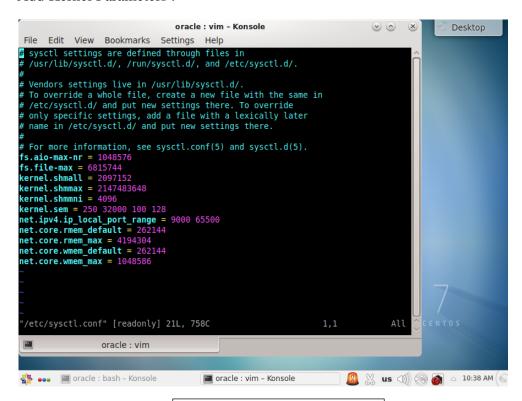


Figure 4.2: Setting Parameters

#### 4.3 – Display all kernel parameter and apply the new values

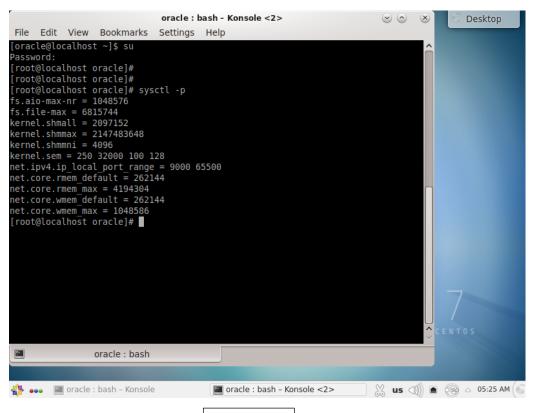


Figure 4.3

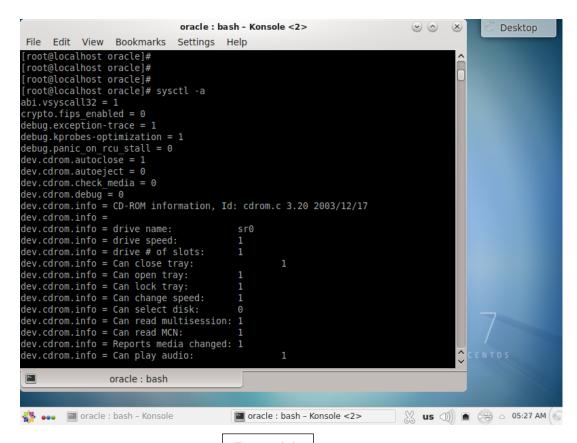


Figure 4.4

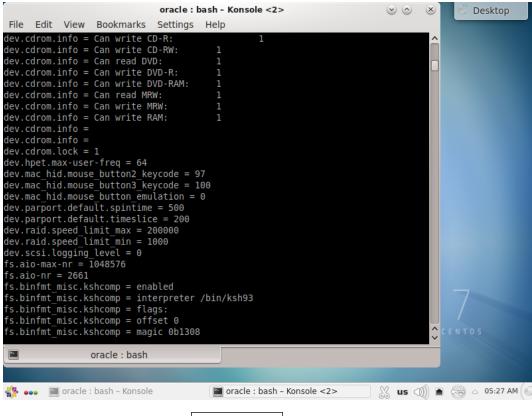


Figure 4.5

5. Edit limit.conf file "vim /etc/security/limits.conf" file (figure: 5.1)

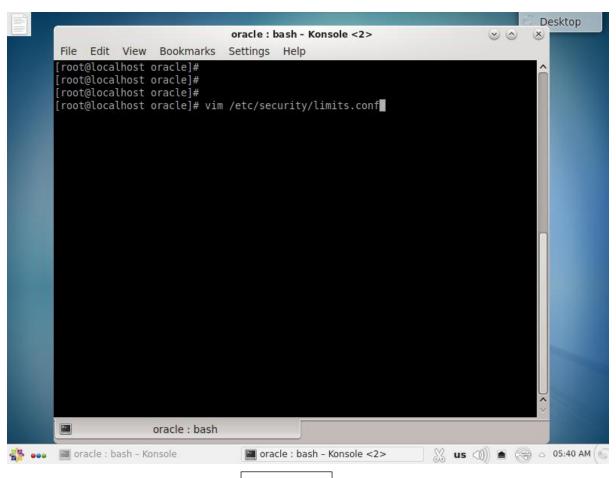


Figure 5.1

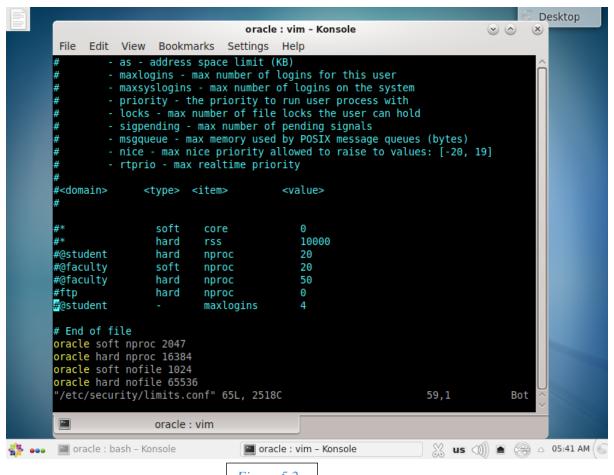
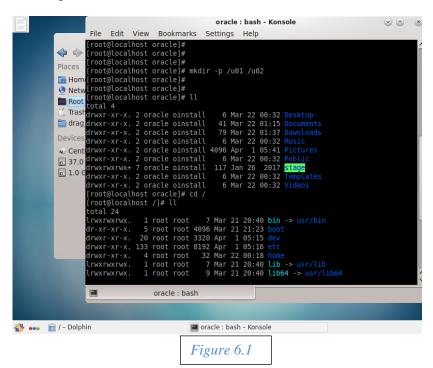


Figure 5.2

#### 6. Create necessary directories such as u01, u02

Create "u01" and "u02" folders in root code: mkdir –p /u01 /u02



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Figure 6.2

#### 7. Assign necessary permissions for created directories

Code: chown -R oracle:oinstall /u01 /u02 chmod -R 775 /u01 /u02 chmod g+s /u01 /u02

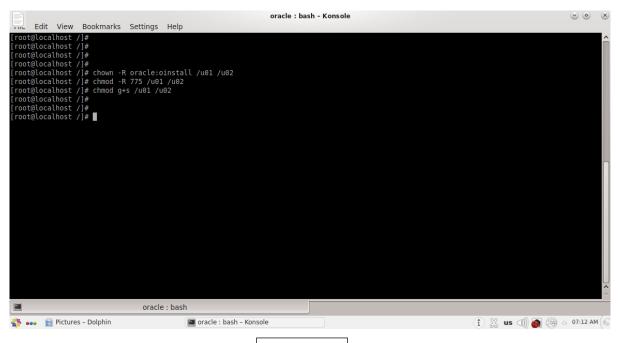


Figure 7