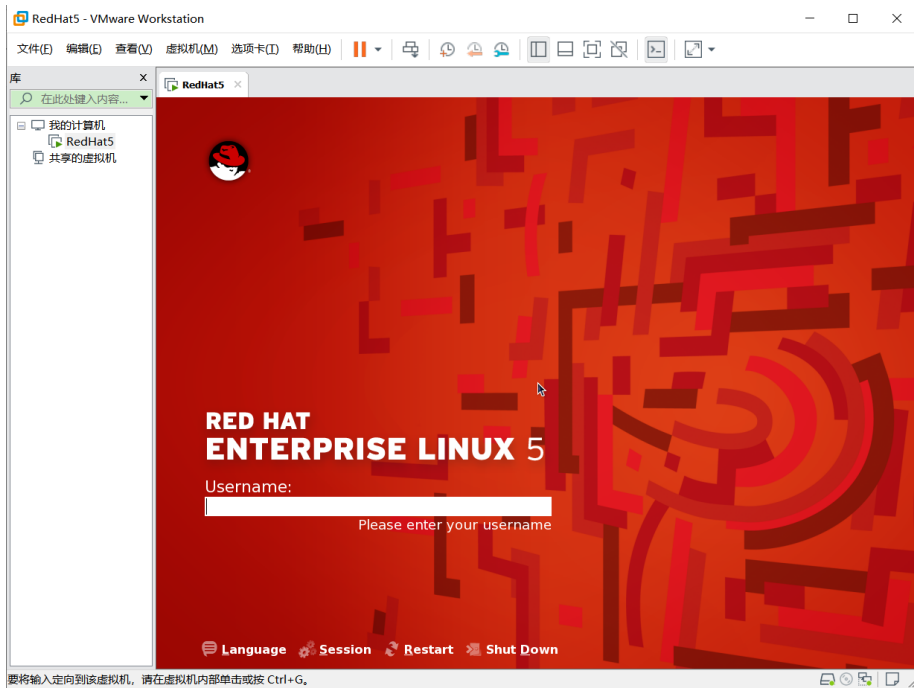
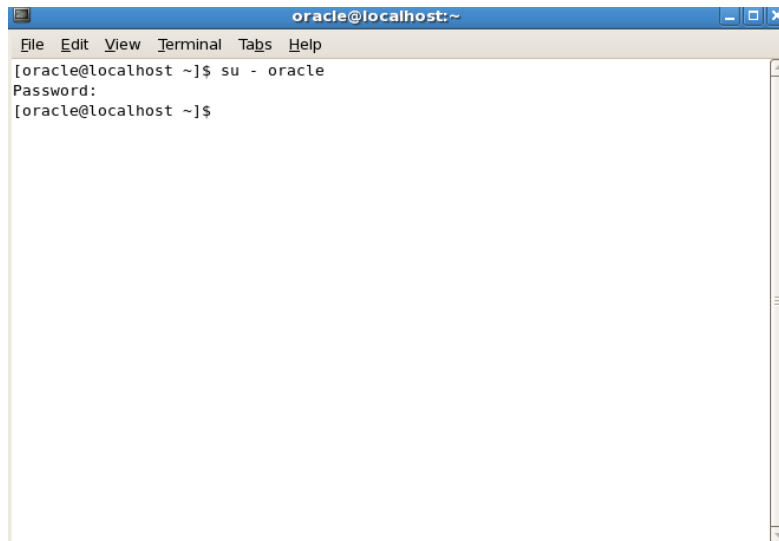


《数据库系统原理》实验报告（一）					
题目：上机实验课（一） Oracle 数据库介绍					
学号	1853790	姓名	庄镇华	日期	2020.10.13
实验环境：VMware 虚拟机 Red Hat5 系统下的 oracle 环境					
实验步骤及结果截图：					
0. 配置环境					
 <p>The screenshot shows two windows from VMware Workstation. The top window is the 'VMware Workstation Pro 安装' (Installation) wizard, displaying the '欢迎使用 VMware Workstation Pro 安装向导' (Welcome to the VMware Workstation Pro installation wizard) screen. It includes instructions on how to use the wizard to install or modify the software. The bottom window is the 'RedHat5 - VMware Workstation' interface, showing the configuration for a virtual machine named 'RedHat5'. The left sidebar shows the '库' (Library) with '我的计算机' (My Computer) and 'RedHat5' listed. The main area shows the 'RedHat5' configuration, including '设备' (Hardware) and '描述' (Description) tabs. The '设备' tab is active, showing settings for memory (1.5 GB), processor (1), hard disk (30 GB), CD/DVD (IDE), network adapter (NAT), and display (Automatic). The '描述' tab is also visible, showing a description field. The bottom right corner of the window displays '虚拟机详细信息' (Virtual Machine Details), including the status (已关机 - Powered Off), configuration file path, hardware compatibility (Workstation 6.5-7.x), and the main IP address (Network information unavailable).</p>					



1. 开启虚拟机
2. 进入 oracle 用户



启动监听命令

```
[oracle@localhost ~]$ lsnrctl start

LSNRCTL for Linux: Version 10.2.0.1.0 - Production on 12-OCT-2020 22:45:26

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Starting /home/oracle/oracle/product/10.2.0/db_1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 10.2.0.1.0 - Production
System parameter file is /home/oracle/oracle/product/10.2.0/db_1/network/admin/lsnr.ora
Log messages written to /home/oracle/oracle/product/10.2.0/db_1/network/log/listener.log
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=localhost.localdomain)(PORT=1521)))

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=localhost.localdomain)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                     LISTENER
Version                   TNSLSNR for Linux: Version 10.2.0.1.0 - Production
Start Date                12-OCT-2020 22:45:26
Uptime                    0 days 0 hr. 0 min. 0 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
Listener Parameter File   /home/oracle/oracle/product/10.2.0/db_1/network/admin/lsnr.ora
Listener Log File         /home/oracle/oracle/product/10.2.0/db_1/network/log/listener.log
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=localhost.localdomain)(PORT=1521)))
Services Summary...
Service "PLSExtProc" has 1 instance(s).
  Instance "PLSExtProc", status UNKNOWN, has 1 handler(s) for this service...
The command completed successfully
```

查看监听的状态

```
[oracle@localhost ~]$ lsnrctl start

LSNRCTL for Linux: Version 10.2.0.1.0 - Production on 12-OCT-2020 22:45:26

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Starting /home/oracle/oracle/product/10.2.0/db_1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 10.2.0.1.0 - Production
System parameter file is /home/oracle/oracle/product/10.2.0/db_1/network/admin/lsnr.ora
Log messages written to /home/oracle/oracle/product/10.2.0/db_1/network/log/listener.log
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=localhost.localdomain)(PORT=1521)))

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=localhost.localdomain)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                     LISTENER
Version                   TNSLSNR for Linux: Version 10.2.0.1.0 - Production
Start Date                12-OCT-2020 22:45:26
Uptime                    0 days 0 hr. 0 min. 0 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
Listener Parameter File   /home/oracle/oracle/product/10.2.0/db_1/network/admin/lsnr.ora
Listener Log File         /home/oracle/oracle/product/10.2.0/db_1/network/log/listener.log
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=localhost.localdomain)(PORT=1521)))
Services Summary...
Service "PLSExtProc" has 1 instance(s).
  Instance "PLSExtProc", status UNKNOWN, has 1 handler(s) for this service...
The command completed successfully
[oracle@localhost ~]$ lsnrctl status

LSNRCTL for Linux: Version 10.2.0.1.0 - Production on 12-OCT-2020 22:47:54

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=localhost.localdomain)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                     LISTENER
```

3. 在 oracle 用户下

```
[oracle@localhost ~]$ isqlplusctl start
iSQL*Plus 10.2.0.1.0
Copyright (c) 2003, 2005, Oracle. All rights reserved.
Starting iSQL*Plus ...
iSQL*Plus started.
```

4. 启用企业管理器

```
[oracle@localhost ~]$ emctl start dbconsole
TZ set to Etc/GMT+8
Oracle Enterprise Manager 10g Database Control Release 10.2.0.1.0
Copyright (c) 1996, 2005 Oracle Corporation. All rights reserved.
http://localhost.localdomain:1158/em/console/aboutApplication
Starting Oracle Enterprise Manager 10g Database Control ..... started.
-----
Logs are generated in directory /home/oracle/oracle/product/10.2.0/db_1/localhost.localdomain_sid/sysman/log
```

5. 进数据库，修改用户库用户 sys 的密码

a. 开启数据库

```
[oracle@localhost ~]$ sqlplus / as sysdba

SQL*Plus: Release 10.2.0.1.0 - Production on Mon Oct 12 23:00:59 2020

Copyright (c) 1982, 2005, Oracle. All rights reserved.

Connected to an idle instance.

SQL> startup
ORACLE instance started.

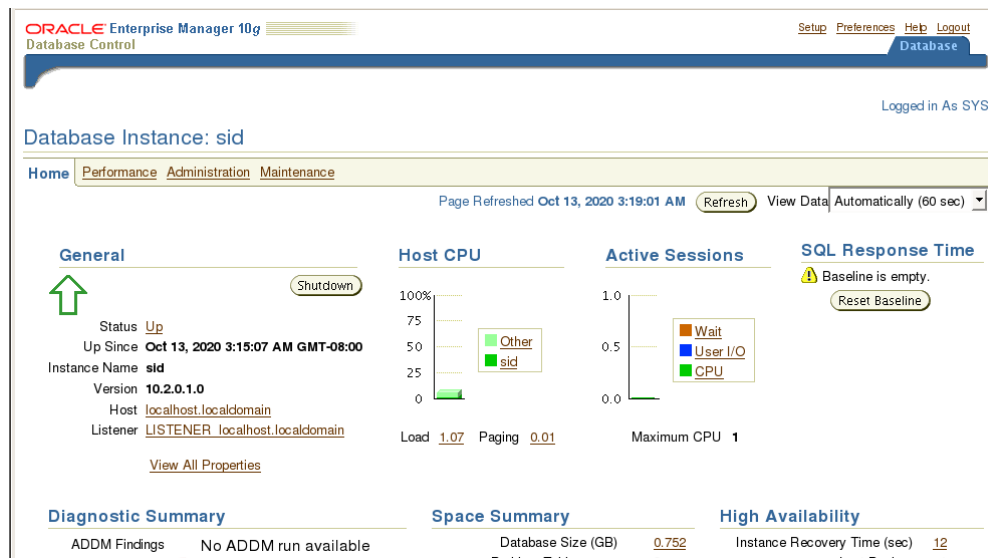
Total System Global Area  444596224 bytes
Fixed Size                  1219904 bytes
Variable Size              146801344 bytes
Database Buffers           293601280 bytes
Redo Buffers                2973696 bytes
Database mounted.
Database opened.
```

b. 修改密码

```
SQL> alter user sys identified by yourpassword;

User altered.
```

6. 在 redhat 的浏览器上访问 http://localhost:1158/em/, 登录管理 oracle 数据库



在浏览器上访问 http://localhost:1158/

查看数据库信息

Oracle Application Server Containers for J2EE 10g (9.0.4.1.0)

Welcome! Your server is now running and you can start deploying your J2EE 1.3 applications.

Information

This version of Oracle Application Server Containers for J2EE 10g (OC4J) is J2EE 1.3 compatible.

For more information on OC4J including documentation, samples, technical notes and updates see the OC4J page on OTN <http://otn.oracle.com/tech/java/oc4j>.

For OC4J demos, see the OC4J demo page on OTN <http://otn.oracle.com/tech/java/oc4j/demos/904>.

For general Oracle Application Server 10g product information, see <http://otn.oracle.com/products/ias/content.html> and <http://www.oracle.com/ip/dep/ias/index.html>.

We invite you to collaborate with other J2EE developers and members of the OC4J user community using the [J2EE discussion forum](#) on the [Oracle Technology Network](#) (OTN).

Important JDK 1.4 Information

[Incompatibilities between Java 2 Platform, Standard Edition, v1.4.0 and v1.3](#)

Documentation

This distribution contains the OC4J Standalone User's Guide which describes how to use the OC4J Standalone distribution.

7. 在浏览器上访问登录 <http://localhost:5560/isqlplus>

8. 操作一个简单 SQL 命令。可以在 terminal 中输入，也可以在 iSQLplus 中输入。

出现的问题:

1. 配置环境时 VMware 提示此主机支持 Intel VT-x, 但 Intel VT-x 处于禁用状态, 导致虚拟机无法运转。
2. 使用命令 `alter user sys identified by yourpassword;` 修改密码后无法登陆。

解决方案:

1. Intel VT-x 完整名称是 Intel Virtualization Technology, 就是 Intel 虚拟技术, 开启它可以让硬件平台同时运行多个操作系统, 是虚拟机软件运行必备的技术之一, 如果禁用, 就会弹出“此主机支持 Intel VT-x, 但 Intel VT-x 处于禁用状态”这个提示, 解决办法就是进 BIOS 开启 Intel Virtualization Technology。
2. 理解命令的含义, `user` 后面的 `sys` 是用户名, `identified by` 后面的 `yourpassword` 是密码。