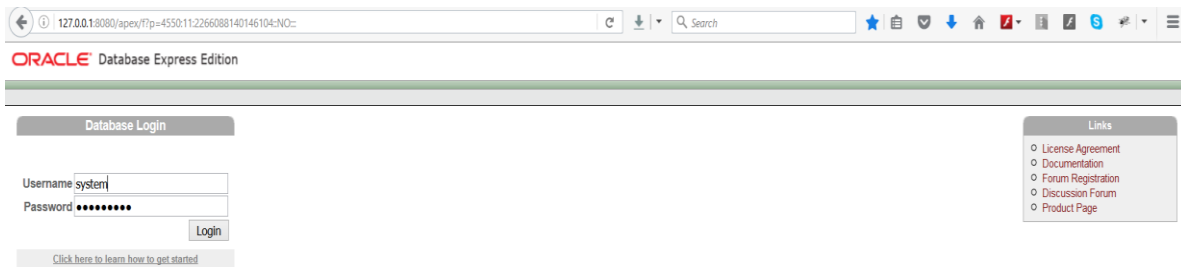


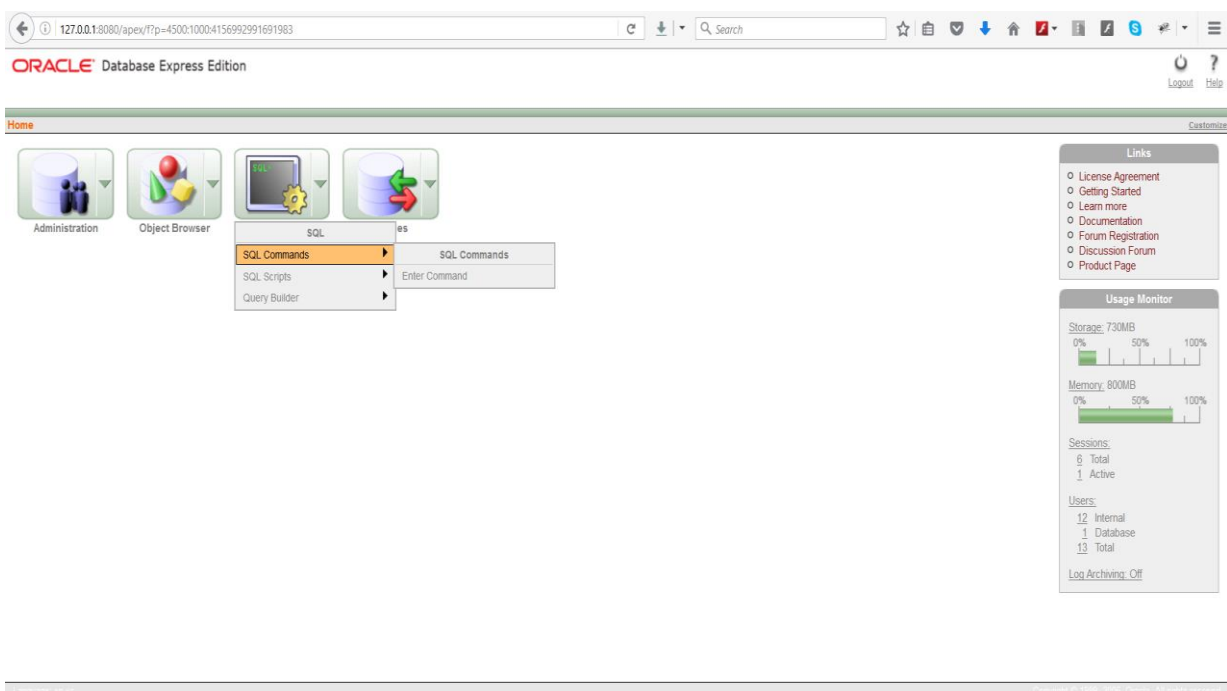
ORACLE 10g Practical 1(Table creation)

1. Click on start
2. Click on Program
3. Click on Oracle Database 10g Express Edition
4. Click Go to Database Home Page

This will take you to the following:

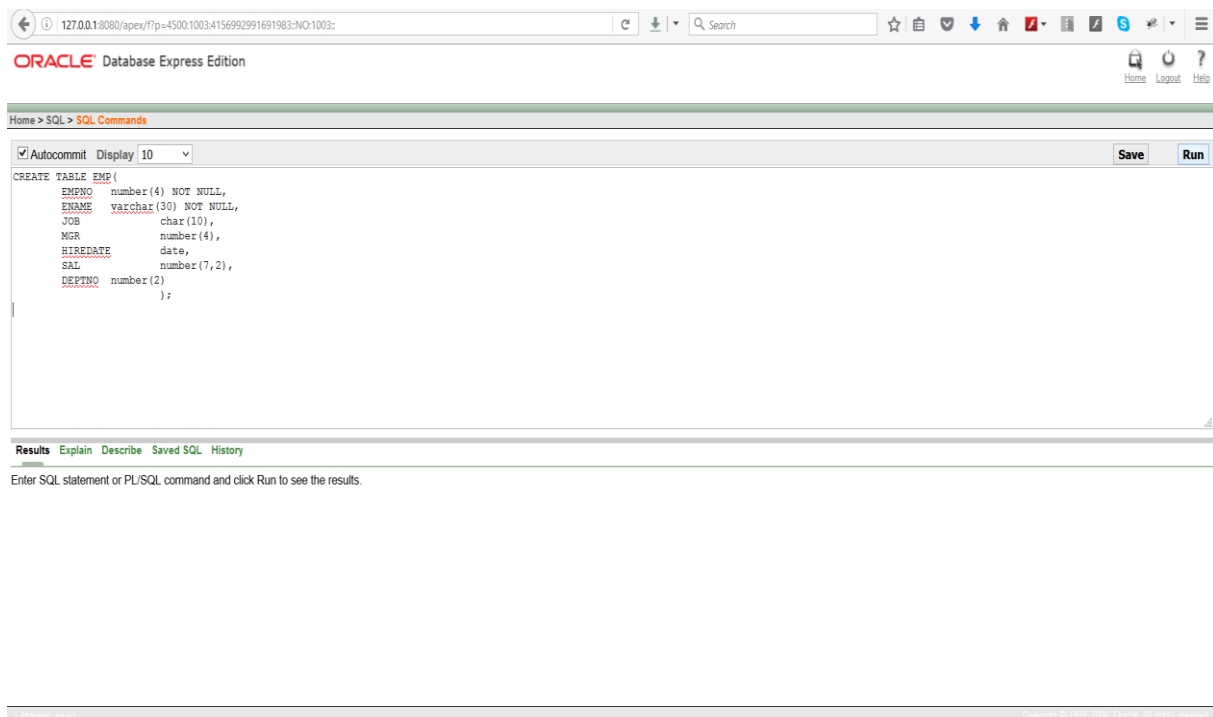


5. Enter your username and password



6. Click on Login

7. Click on SQL --> SQL Commands -> Enter the following SQL Commands and click on the button Run



8. Create and populate the following tables:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	DEPTNO
7369	SMITH	CLERK	7902	17-Dec-80	800	20
7499	ALLEN	SALESMAN	7698	20-Feb-81	1600	30
7521	WARD	SALESMAN	7698	22-Feb-81	1250	30
7698	BLAKE	MANAGER		1-May-81	3850	30
7902	FORD	ANALYST	7566	3-Dec-81	3000	10

Use the following data types to create the table structure:

```
CREATE TABLE EMP(
    EMPNO      number(4) NOT NULL,
    ENAME      varchar(30) NOT NULL,
    JOB        char(10),
    MGR        number(4),
    HIREDATE   date,
    SAL        number(7,2),
    DEPTNO     number(2)
);
```

The SQL statement to populate (insert) data into the table is as follows:

(N.B. It is best to write all your coding in a word editing software (Notepad, MS Word), save the file and you can just copy and paste from here into SQLPLUS; It is also easier to modify your coding here rather than doing it directly in SQLPLUS!)

First try these incorrect SQL commands and see for yourself the error displayed by SQLPLUS

```
INSERT INTO EMP
```

Introduction to ORACLE 10g/11g

Lecturer: Mr Ajit Gopee

VALUES (7369, 'SMITH', 'CLERK', 7902, '17-DEC-80', 800, 20)

SQL> INSERT INTO EMP

2 VALUES (7369, 'SMITH', 'CLERK', 7902, '17-DEC-80', 800, 20)

3

SQL>

What you missed out here is the semi colon (;) at the end!

INSERT INTO EMP

VALUES (7369, SMITH, 'CLERK', 7902, '17-DEC-80', 800, 20);

SQL> INSERT INTO EMP

2 VALUES (7369, SMITH, 'CLERK', 7902, '17-DEC-80', 800, 20);

VALUES (7369, SMITH, 'CLERK', 7902, '17-DEC-80', 800, 20)

*

ERROR at line 2:

ORA-00984: column not allowed here

The correct syntax is as follows:

INSERT INTO EMP VALUES (7369, 'SMITH', 'CLERK', 7902, '17-DEC-80', 800, 20);

SQL> INSERT INTO EMP VALUES (7902, 'FORD', 'ANALYST', 7576, '3-DEC-81', 3000, 10);

1 row created.

Similarly write SQL statements to insert the rest of the data into the EMP table.

(N.B. You can send a series of SQL at one go)

INSERT INTO EMP VALUES (7499, 'ALLEN', 'SALESMAN', 7698, '20-FEB-81', 1600, 30);

INSERT INTO EMP VALUES (7521, 'WARD', 'SALESMAN', 7698, '22-FEB-81', 1250, 30);

INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER', , '1-MAY-81', 3850, 30);

INSERT INTO EMP VALUES (7902, 'FORD', 'ANALYST', 7576, '3-DEC-81', 3000, 10);

You will encounter a problem for the null value for 'Blake'

SQL> INSERT INTO EMP VALUES (7499, 'ALLEN', 'SALESMAN', 7698, '20-FEB-81', 1600, 30)

1 row created.

SQL> INSERT INTO EMP VALUES (7521, 'WARD', 'SALESMAN', 7698, '22-FEB-81', 1250, 30);

1 row created.

SQL> INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER', , '1-MAY-81', 3850, 30);

INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER', , '1-MAY-81', 3850, 30)

*

ERROR at line 1:

ORA-00936: missing expression

SQL> INSERT INTO EMP VALUES (7902, 'FORD', 'ANALYST', 7576, '3-DEC-81', 3000, 10);

1 row created.

The correct way to do it is as follows:

```
INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER',, '1-MAY-81', 3850, 30);
```

```
SQL> INSERT INTO EMP VALUES (7698, 'BLAKE', 'MANAGER',, '1-MAY-81', 3850, 30);
```

1 row created.

Finally try:

```
1. SELECT * FROM EMP;
```

```
SQL> select * from emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE
7369	SMITH	CLERK	7902	17-DEC-80
800	20			
7499	ALLEN	SALESMAN	7698	20-FEB-81
1600	30			
7521	WARD	SALESMAN	7698	22-FEB-81
1250	30			

EMPNO	ENAME	JOB	MGR	HIREDATE
7902	FORD	ANALYST	7576	03-DEC-81
3000	10			
7698	BLAKE	MANAGER		01-MAY-81
3850	30			

```
2. SELECT ENAME FROM EMP;
```

```
SQL> select ename from emp;
```

ENAME
SMITH
ALLEN
WARD
FORD
BLAKE

```
3. SELECT ENAME,JOB FROM EMP;
```

```
SQL> select ename, job from emp;
```

ENAME

JOB

ENAME	JOB
SMITH	CLERK
ALLEN	SALESMAN
WARD	SALESMAN
FORD	ANALYST
BLAKE	MANAGER