

At this point the sample database should  
have been established

Now the process to create the lab  
database will begin

You will find the information/files needed to create your database located under the Competency 1 tab in Blackboard

The screenshot shows the Austin Community College District website. The header includes the ACC logo, the slogan "Start Here. Get There.", and the "i am acc" branding with a "Read our stories and submit yours >>" link. A navigation bar contains a search box, a "Directory" link, and a list of topics: Educational Choices, Costs & Financial Aid, Student Support, Library, Locations, and Ask ACC.

The main content area features a large banner for "FALL REGISTRATION OPEN for all students" with an image of a squirrel and a "REGISTER NOW!" call to action. Below the banner are three columns of content: "News & Announcements" with links to registration and emergency preparedness; "What's Happening at ACC" with dates for registration and scholarship reinstatement; and "eServices" with a list of links including "Online Services", "Blackboard", "ACCmail", "ACC Marketplace", and "ACCeID Manager". A blue arrow points from the word "Blackboard" to the "Blackboard" link in the "eServices" list.

On the left sidebar, there is a "Register For Classes Online" button with a "GO!" icon and a list of navigation links: About ACC, Future Students, Current Students, Faculty and Staff, Parents and Visitors, Community and Business, and Continuing Education. At the bottom of the sidebar are links for "Apply", "Schedule", and "Register".

Blackboard



## Competency Modules ▾

Build Content ▾

Create Assessment ▾

Add Interactive Tool ▾

Assign Textbook ▾



### Course Orientation ▾



### Competency 1: Demonstrate how to use SQL to query a database and listing a database structure ▾



This competency module will cover chapter 7 in "Database System" textbook and chapter 1, 2, 3, 4, 5 in "Oracle 11g SQL" Lab book.



### Competency 2: Identify Database Systems and Design Models ▾

Select Competency 1



This Competency Module will cover chapter 1, 2, 3, 4, 6 in "Database Systems" textbook .



### Competency 3: Operate Sample Database ▾



This competency module is built on competency 1 and will cover chapter 3, 6, 8, 9, 11, 12 in "Oracle 11g SQL" Lab book.



### Competency 4: Implement Advanced SQL and Database Design ▾



This competency module is built on Competency 2 and will cover chapter 5, 8, 9, 10 in "Database Systems" textbook.

These are the scripts that will be used for this lab. There are five tables that will be created with associated data .

The tables are Customer, Items, Orders , Stock and Manufact .

There is a sequence for this process to work – study the scripts to determine if you can figure out why they must be loaded in a specific sequence. (Hint- It has to do with how the tables related to each other . The first table to load is 'MANUFACT'

The screenshot shows a web interface for a 'Competency 1 Assessment'. At the top, there is a yellow header bar with a folder icon and the text 'Competency 1 Assessment'. Below this, there are four blue buttons: 'Build Content', 'Create Assessment', 'Add Interactive Tool', and 'Assign Textbook'. A vertical sidebar on the left contains a back arrow and a double-headed arrow. The main content area is titled 'Scripts for Lab 1' and includes a document icon. It shows 'Enabled: Statistics Tracking' and a list of 'Attached Files' with their respective sizes. Below the file list, there are three numbered instructions.

**Competency 1 Assessment**

Build Content Create Assessment Add Interactive Tool Assign Textbook

**Scripts for Lab 1**

Enabled: Statistics Tracking

Attached Files:

<a href="#">CUSTOMER_DATA.SQL</a> (2.693 KB)	<a href="#">CUSTOMER_TABLE.SQL</a> (0.409 KB)	<a href="#">ITEM_DATA.SQL</a> (2.124 KB)
<a href="#">ITEMS_TABLE.SQL</a> (0.32 KB)	<a href="#">MANUFACT_DAT.SQL</a> (0.239 KB)	<a href="#">MANUFACT_TABLE.SQL</a> (0.12 KB)
<a href="#">ORDERS_DATA.sql</a> (3.02 KB)	<a href="#">ORDERS_TABLE.SQL</a> (0.456 KB)	<a href="#">STOCK_DATA.SQL</a> (1.172 KB)
<a href="#">STOCK_TABLE.SQL</a> (0.307 KB)		

1. Above are listed the files to establish the operational sample database for this class-
2. Please take note: there is a sequencing of files for installation to occur
3. Open files using notebook, then copy-paste into your Oracle 11g SQL\*Plus prompt sample database

The recommendation is to download these files and save them in an appropriate directory

There are several methods to create the lab 1 database,

- You can type the information into the SQL prompt – (data enter) – in a line by line process
- You can copy paste the information in a line by line process
- You can use the load /import script process

If you chose to use the copy paste method , you will open the file in a Notepad text file format. This will allow you copy paste from Notepad into the SQL Command window

Using the Copy – Paste method

```
CREATE TABLE manufact  
(manu_code CHAR(3) CONSTRAINT manu_code_pk PRIMARY KEY,  
manu_name VARCHAR2(15))
```

After text is  
selected use the  
Copy function  
then past into  
the SQL  
Command  
Window



http://127.0.0.1:8080/apex/f?p= SQL Commands New Tab

**ORACLE** Application Express Welcome ITSE2309 (Logout)

Home Application Builder SQL Workshop Team Development Administration

Home SQL Workshop SQL Commands Schema ITSE2309 Help

☒ Autocommit Rows 10 Save Run

Undo  
Cut  
Copy  
Paste  
Delete  
Send to OneNote  
Select all

Past into SQL window

Results Explain Describe Saved SQL History

Enter SQL statement or PL/SQL command and click Run to see the results.

Application Express 4.0.2.00.09

Workspace: ITSE2309 User: ITSE2309 Language: en | Copyright © 1999-2010 Oracle. All rights reserved.

Oracle Application Express interface showing the SQL Commands window.

The browser address bar shows: `http://127.0.0.1:8080/apex/f?p=...`

The Oracle Application Express header displays: **ORACLE Application Express** (Welcome ITSE2309 (Logout))

The navigation menu includes: Home, Application Builder, SQL Workshop, Team Development, Administration.

The breadcrumb trail is: Home > SQL Workshop > SQL Commands

The Schema dropdown is set to ITSE2309.

The SQL Command window contains the following SQL statement:

```
CREATE TABLE manufact
(manu_code      CHAR(3) CONSTRAINT manu_code_pk PRIMARY KEY,
manu_name      VARCHAR2(15))
```

Buttons: Autocommit (checked), Rows (10), Save, Run.

Below the SQL window, the Results tab is selected. The text reads: "Enter SQL statement or PL/SQL command and click Run to see the results."

Footer information: Application Express 4.0.2.00.09, Workspace: ITSE2309, User: ITSE2309, Language: en, Copyright © 1999, 2010, Oracle. All rights reserved.

Oracle Application Express interface showing SQL Commands execution.

URL: <http://127.0.0.1:8080/apex/f?p=...>

Navigation: Home | Application Builder | SQL Workshop | Team Development | Administration

Schema: ITSE2309

Autocommit: ☒ Rows: 10

SQL Command:

```
CREATE TABLE manufact
(
  manu_code CHAR(3) CONSTRAINT manu_code_pk PRIMARY KEY,
  manu_name VARCHAR2(15)
);
```

Buttons: Save Run

Results Explain Describe Saved SQL History

Table created.

0.12 seconds

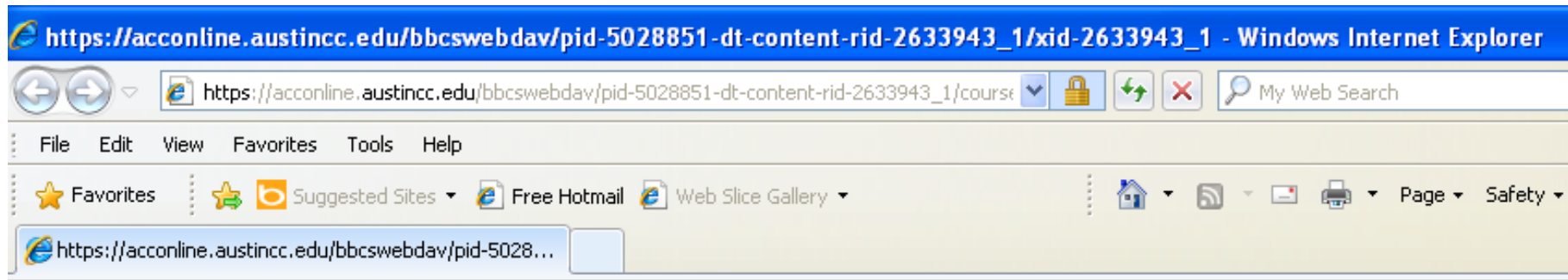
If you are successful you will see "Table Created"

Application Express 4.0.2.00.09

Workspace: ITSE2309 User: ITSE2309

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

Repeat with the Copy /Paste for  
loading data



```
INSERT INTO manufact
VALUES ('ANZ','Anza');
INSERT INTO manufact
VALUES ('HSK','Husky');
INSERT INTO manufact
VALUES ('HRO','Hero');
INSERT INTO manufact
VALUES ('NRG','Norge');
INSERT INTO manufact
VALUES ('SMT','Smith');
```

Continue with the process until complete

Note: This may require a line by line copy paste