# Domas Budrys A6 -CSCI 5020 Screenshots
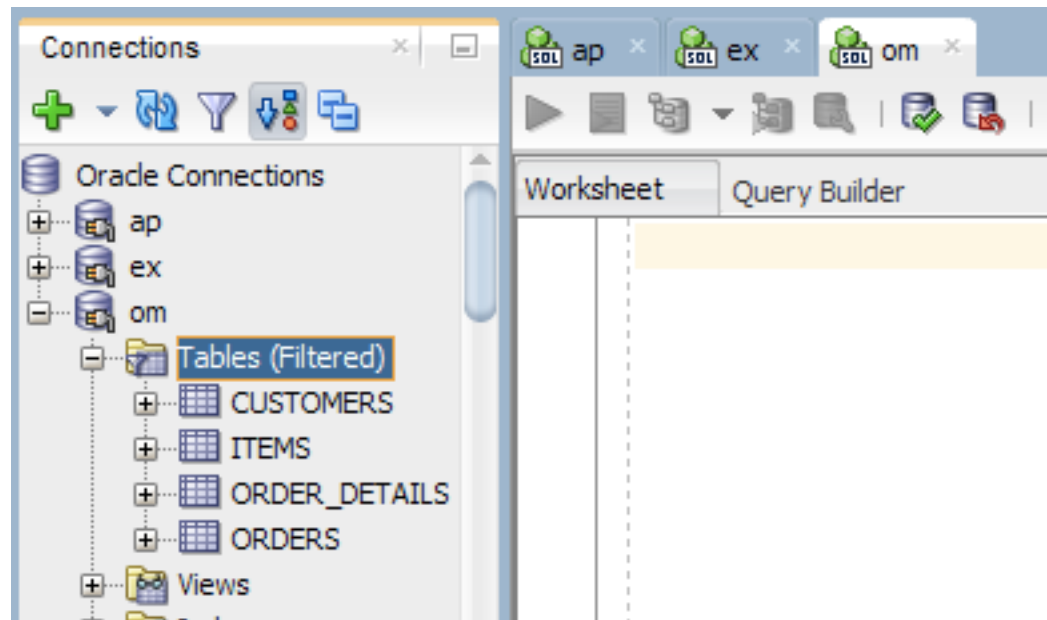
**Ch2Ex1:**

| | | | |
|---|---|---|---|
| OracleJobSchedul... | | Disabled | Local Syste... |
| OracleMTSRecove... | | Manual | Local Syste... |
| OracleServiceXE | Started | Automatic | Local Syste... |
| OracleXECIrAgent | | Manual | Local Syste... |
| OracleXETNSListe... | Started | Automatic | Local Syste... |

**Ch2Ex2:**



sqldeveloper    sqldeveloper
                  - Shortcut

**Ch2Ex3:**

**Ch2Ex4:**

- ap
  - Tables (Filtered)
  - Views
  - Indexes
  - Packages
  - Procedures
  - Functions
  - Operators
  - Queues
  - Queues Tables
  - Triggers
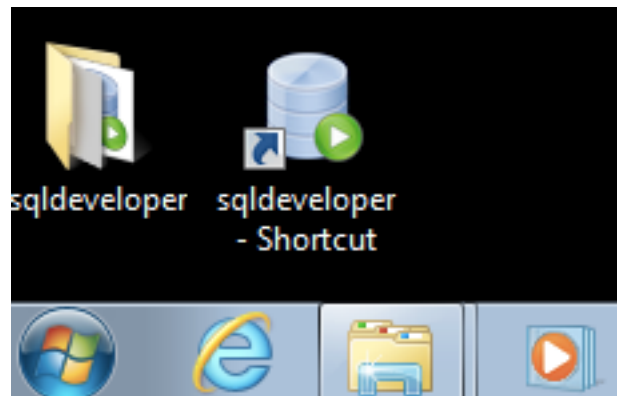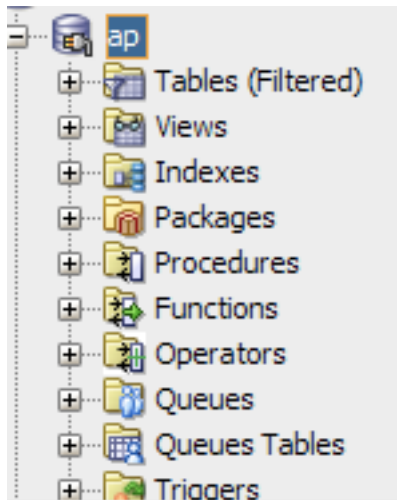
**Ch2Ex5:**

Connections — Oracle Connections — ap — Tables (Filtered): GENERAL_LEDGER_AC, INVOICE_ARCHIVE, INVOICE_LINE_ITEMS, INVOICES, TERMS, VENDOR_CONTACTS, VENDORS (VENDOR_ID, VENDOR_NAME)

ap | ex | om | VENDORS

Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Actions...

| | COLUMN_NAME | DATA_TYPE | NULLABLE | DATA_DEFAULT | COLUMN_ID | COMMENTS |
|---|---|---|---|---|---|---|
| 1 | VENDOR_ID | NUMBER | No | (null) | 1 | (null) |
| 2 | VENDOR_NAME | VARCHAR2(50 BYTE) | No | (null) | 2 | (null) |
| 3 | VENDOR_ADDRESS1 | VARCHAR2(50 BYTE) | Yes | (null) | 3 | (null) |
| 4 | VENDOR_ADDRESS2 | VARCHAR2(50 BYTE) | Yes | (null) | 4 | (null) |
| 5 | VENDOR_CITY | VARCHAR2(50 BYTE) | No | (null) | 5 | (null) |
| 6 | VENDOR_STATE | CHAR(2 BYTE) | No | (null) | 6 | (null) |
| 7 | VENDOR_ZIP_CODE | VARCHAR2(20 BYTE) | No | (null) | 7 | (null) |
| 8 | VENDOR_PHONE | VARCHAR2(50 BYTE) | Yes | (null) | 8 | (null) |
| 9 | VENDOR_CONTACT_LAST_NAME | VARCHAR2(50 BYTE) | Yes | (null) | 9 | (null) |
| 10 | VENDOR_CONTACT_FIRST_NAME | VARCHAR2(50 BYTE) | Yes | (null) | 10 | (null) |
| 11 | DEFAULT_TERMS_ID | NUMBER | No | (null) | 11 | (null) |
| 12 | DEFAULT_ACCOUNT_NUMBER | NUMBER | No | (null) | 12 | (null) |

Reports — All Reports — Analytic View Reports — Data Dictionary Reports — Data Modeler Reports

Connections — Oracle Connections — ap — Tables (Filtered): GENERAL_LEDGER_AC, INVOICE_ARCHIVE, INVOICE_LINE_ITEMS, INVOICES (INVOICE_ID, VENDOR_ID, INVOICE_NUMBER, INVOICE_DATE, INVOICE_TOTAL, PAYMENT_TOTAL, CREDIT_TOTAL, TERMS_ID, INVOICE_DUE_DAT, PAYMENT_DATE), TERMS, VENDOR_CONTACTS, VENDORS (VENDOR_ID)

ap | ex | om | INVOICES

Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Actions...

| | COLUMN_NAME | DATA_TYPE | NULLABLE | DATA_DEFAULT | COLUMN_ID | COMMENTS |
|---|---|---|---|---|---|---|
| 1 | INVOICE_ID | NUMBER | No | (null) | 1 | (null) |
| 2 | VENDOR_ID | NUMBER | No | (null) | 2 | (null) |
| 3 | INVOICE_NUMBER | VARCHAR2(50 BYTE) | No | (null) | 3 | (null) |
| 4 | INVOICE_DATE | DATE | No | (null) | 4 | (null) |
| 5 | INVOICE_TOTAL | NUMBER(9,2) | No | (null) | 5 | (null) |
| 6 | PAYMENT_TOTAL | NUMBER(9,2) | Yes | 0 | 6 | (null) |
| 7 | CREDIT_TOTAL | NUMBER(9,2) | Yes | 0 | 7 | (null) |
| 8 | TERMS_ID | NUMBER | No | (null) | 8 | (null) |
| 9 | INVOICE_DUE_DATE | DATE | No | (null) | 9 | (null) |
| 10 | PAYMENT_DATE | DATE | Yes | (null) | 10 | (null) |

**Ch2Ex6:**

```sql
SELECT * FROM invoices
```

Query Result ×

🔖 🖨 🔄 📄 SQL | Fetched 50 rows in 0.029 seconds

| | INVOICE_ID | VENDOR_ID | INVOICE_NUMBER | INVOICE_DATE | INVOICE_TOTAL | PAYMENT_TOTAL | C |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 34 | QP58872 | 25-FEB-08 | 116.54 | 116.54 | |
| 2 | 2 | 34 | Q545443 | 14-MAR-08 | 1083.58 | 1083.58 | |
| 3 | 3 | 110 | P-0608 | 11-APR-08 | 20551.18 | 0 | |
| 4 | 4 | 110 | P-0259 | 16-APR-08 | 26881.4 | 26881.4 | |
| 5 | 5 | 81 | MABO1489 | 16-APR-08 | 936.93 | 936.93 | |
| 6 | 6 | 122 | 989319-497 | 17-APR-08 | 2312.2 | 0 | |
| 7 | 7 | 82 | C73-24 | 17-APR-08 | 600 | 600 | |

```sql
SELECT * FROM vendors
```

Query Result ×

🔖 🖨 🔄 📄 SQL | Fetched 50 rows in 0.014 seconds

| | VENDOR_ID | VENDOR_NAME | VENDOR_ADDRESS1 | VENDOR_A |
|---|---|---|---|---|
| 1 | 72 | Data Reproductions Corp | 4545 Glenmeade Lane | NULL |
| 2 | 73 | Executive Office Products | 353 E Shaw Ave | NULL |
| 3 | 74 | Leslie Company | PO Box 610 | NULL |
| 4 | 75 | Retirement Plan Consultants | 6435 North Palm Ave, Ste 101 | NULL |
| 5 | 76 | Simon Direct Inc | 4 Cornwall Dr Ste 102 | NULL |
| 6 | 77 | State Board Of Equalization | PO Box 942808 | NULL |

## Ch2Ex7:

```
SELECT vendor_name FROM vendors
```

SQL | Fetched 50 rows in 0.016 seconds

| | VENDOR_NAME |
|---|---|
| 1 | ASC Signs |
| 2 | AT&T |
| 3 | Abbey Office Furnishings |
| 4 | American Booksellers Assoc |
| 5 | American Express |
| 6 | Ascom Hasler Mailing Systems |
| 7 | Aztek Label |
| 8 | BFI Industries |

## Ch2Ex8:

Worksheet    Query Builder

```
SELECT vendor_name, vendor_address1,
    vendor_city, vendor_state, vendor_zip_code
FROM vendors
ORDER BY vendor_name
```

Query Result ×

SQL | Fetched 50 rows in 0.009 seconds

| | VENDOR_NAME | VENDOR_ADDRESS1 | VENDOR_CITY | VENDOR_ |
|---|---|---|---|---|
| 1 | ASC Signs | 1528 N Sierra Vista | Fresno | CA |
| 2 | AT&T | PO Box 78225 | Phoenix | AZ |
| 3 | Abbey Office Furnishings | 4150 W Shaw Ave | Fresno | CA |
| 4 | American Booksellers Assoc | 828 S Broadway | Tarrytown | NY |
| 5 | American Express | Box 0001 | Los Angeles | CA |
| 6 | Ascom Hasler Mailing Systems | PO Box 895 | Shelton | CT |
| 7 | Aztek Label | Accounts Payable | Anaheim | CA |

**Ch2Ex9:**

```sql
SELECT vendor_name, vendor_address1,
    vendor_city, vendor_state, vendor_zip_code
FROM vendors
--ORDER BY vendor_name
```

Query Result  ×

SQL | Fetched 50 rows in 0.016 seconds

| | VENDOR_NAME | VENDOR_ADDRESS1 | VENDOR_CITY | VENDOR_ST |
|---|---|---|---|---|
| 1 | Data Reproductions Corp | 4545 Glenmeade Lane | Auburn Hills | MI |
| 2 | Executive Office Products | 353 E Shaw Ave | Fresno | CA |
| 3 | Leslie Company | PO Box 610 | Olathe | KS |
| 4 | Retirement Plan Consultants | 6435 North Palm Ave, Ste 101 | Fresno | CA |
| 5 | Simon Direct Inc | 4 Cornwall Dr Ste 102 | East Brunswick | NJ |

**Ch2Ex10:**

Worksheet | Query Builder

```sql
SELECT vendor_name, vendor_address1,
    vendor_city, vendor_state, vendor_zip_cod
FROM vendors
ORDER BY vendor_name
```

Query Result  ×

SQL | Executing:SELECT vendor_name, vendor_address1, vend

ORA-00904: "VENDOR_ZIP_COD": invalid identifier
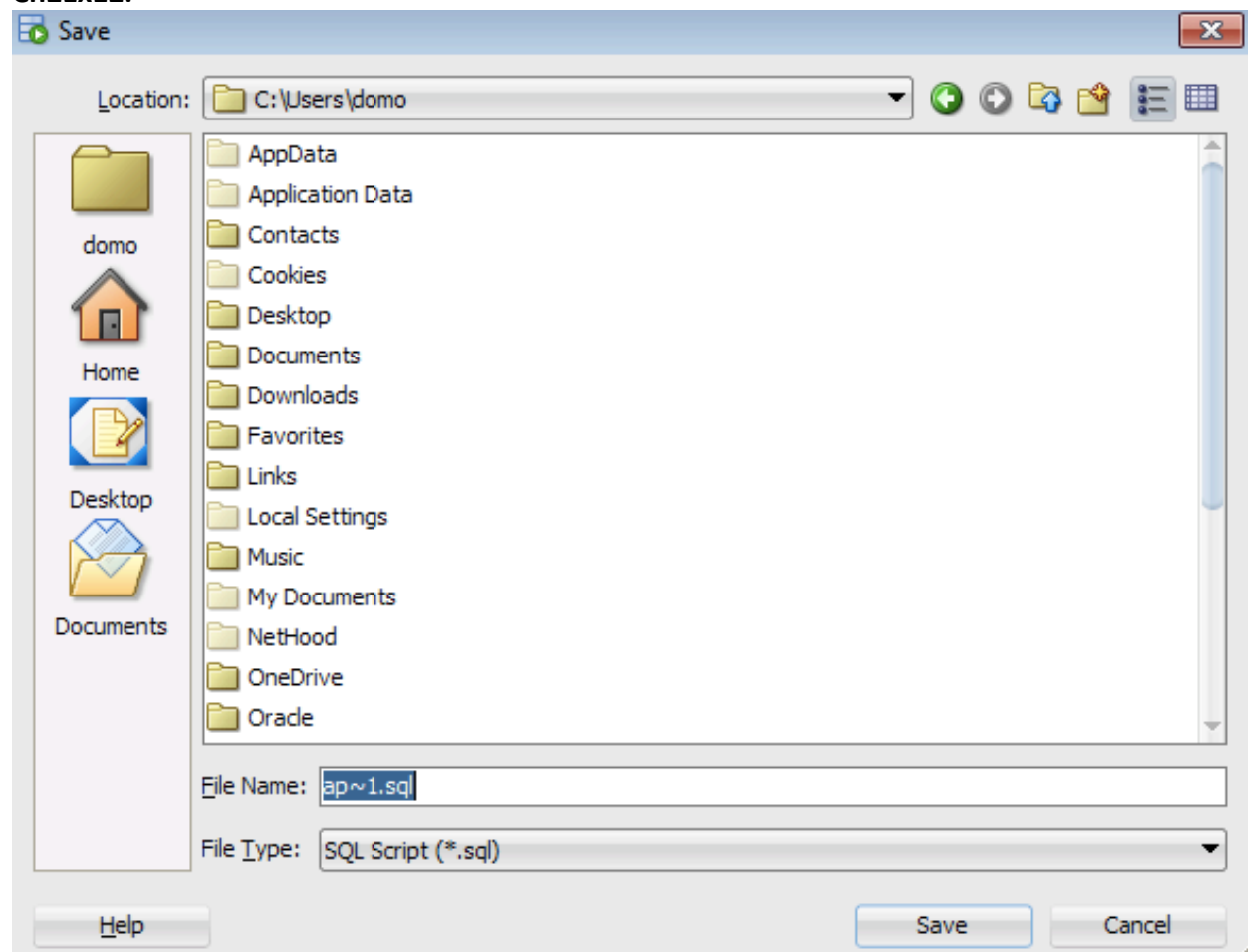00904. 00000 -  "%s: invalid identifier"
*Cause:
*Action:
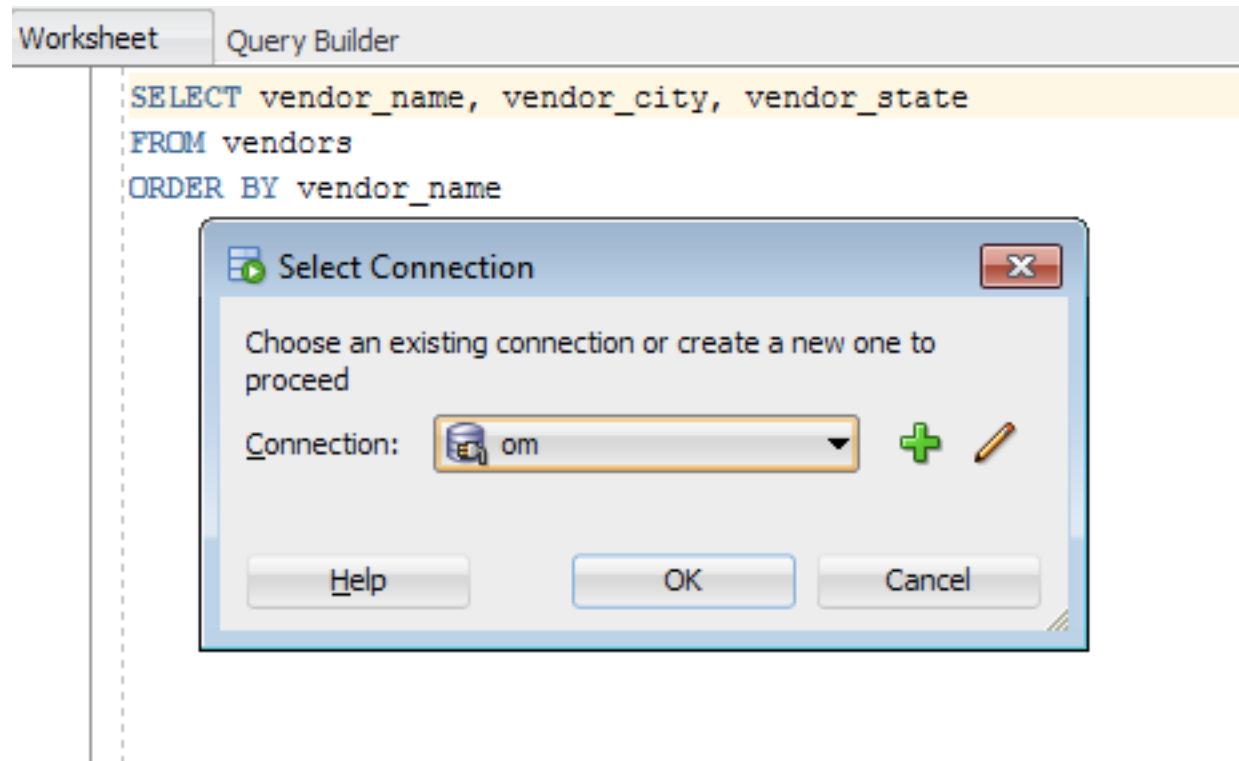Error at Line: 2 Column: 32

**Ch2Ex11:**

```sql
SELECT COUNT(*) AS number_of_invoice,
    SUM(invoice_total) AS grand_invoice_total
FROM invoices
```

▶Query Result  ✕

SQL | All Rows Fetched: 1 in 0.092 seconds
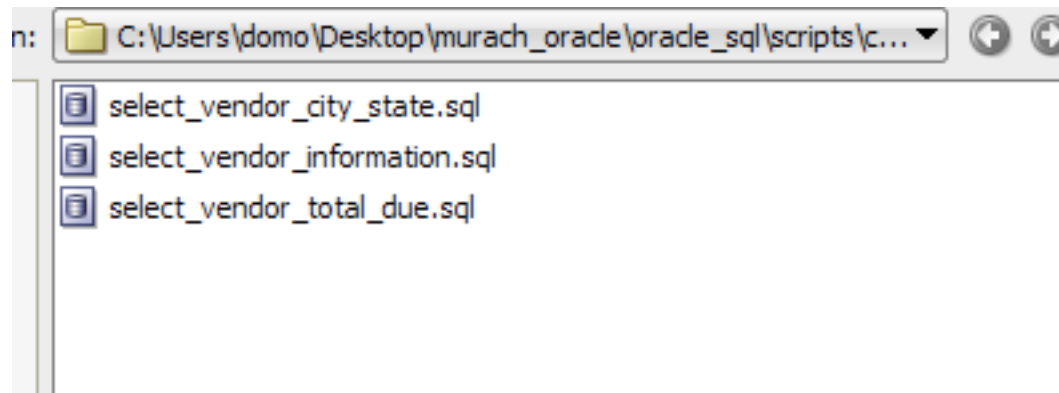
| NUMBER_OF_INVOICE | GRAND_INVOICE_TOTAL |
|---|---|
| 114 | 214290.51 |

**Ch2Ex12:**

**Ch2Ex13:**

| Worksheet | Query Builder |
|---|---|

```
SELECT vendor_name, vendor_city, vendor_state
FROM vendors
ORDER BY vendor_name
```

**Select Connection**

Choose an existing connection or create a new one to proceed

Connection: om

Help     OK     Cancel

**Ch2Ex14:**

n:  C:\Users\domo\Desktop\murach_oracle\oracle_sql\scripts\c...

select_vendor_city_state.sql

select_vendor_information.sql

select_vendor_total_due.sql

**Ch2Ex15:**

```sql
SELECT COUNT(*) AS number_of_invoices,
    SUM(invoice_total - payment_total - credit_total) AS total_due
FROM invoices
WHERE invoice_total - payment_total - credit_total > 0
```

Query Result ✕

SQL | All Rows Fetched: 1 in 0.011 seconds

| | NUMBER_OF_INVOICES | TOTAL_DUE |
|---|---|---|
| 1 | 40 | 66796.24 |

**Ch2Ex16:**

Worksheet    Query Builder

```sql
SELECT vendor_name, vendor_city
FROM vendors
WHERE vendor_id = 34;

SELECT COUNT(*) AS number_of_invoices,
    SUM(invoice_total - payment_total - credit_total) AS total_due
FROM invoices
WHERE vendor_id = 34;
```

Query Result ✕    Script Output ✕

| Task completed in 0.167 seconds

```
VENDOR_NAME                                        VENDOR_CITY
-------------------------------------------------- --------------------------
IBM                                                San Francisco


NUMBER_OF_INVOICES  TOTAL_DUE
------------------- ----------
                  2          0
```

**Ch2Ex17:**



**Ch2Ex18:**

```sql
SELECT vendor_name, vendor_city
FROM vendors
WHERE vendor_id = 34;

SELECT COUNT(*) AS number_of_invoices,
    SUM(invoice_total - payment_total - credit_total) AS total_due
FROM invoices
WHERE vendor_id = 34;
```
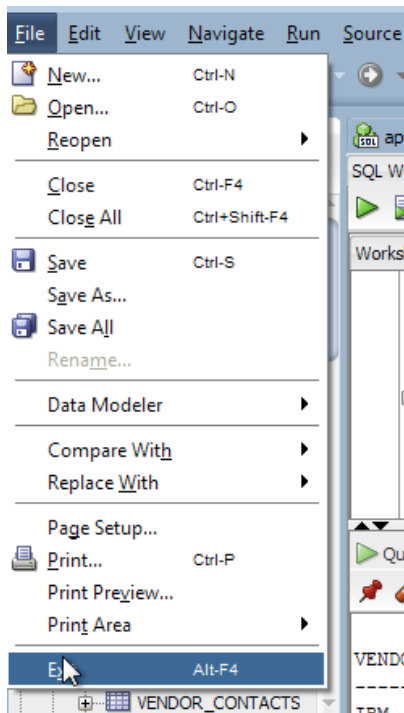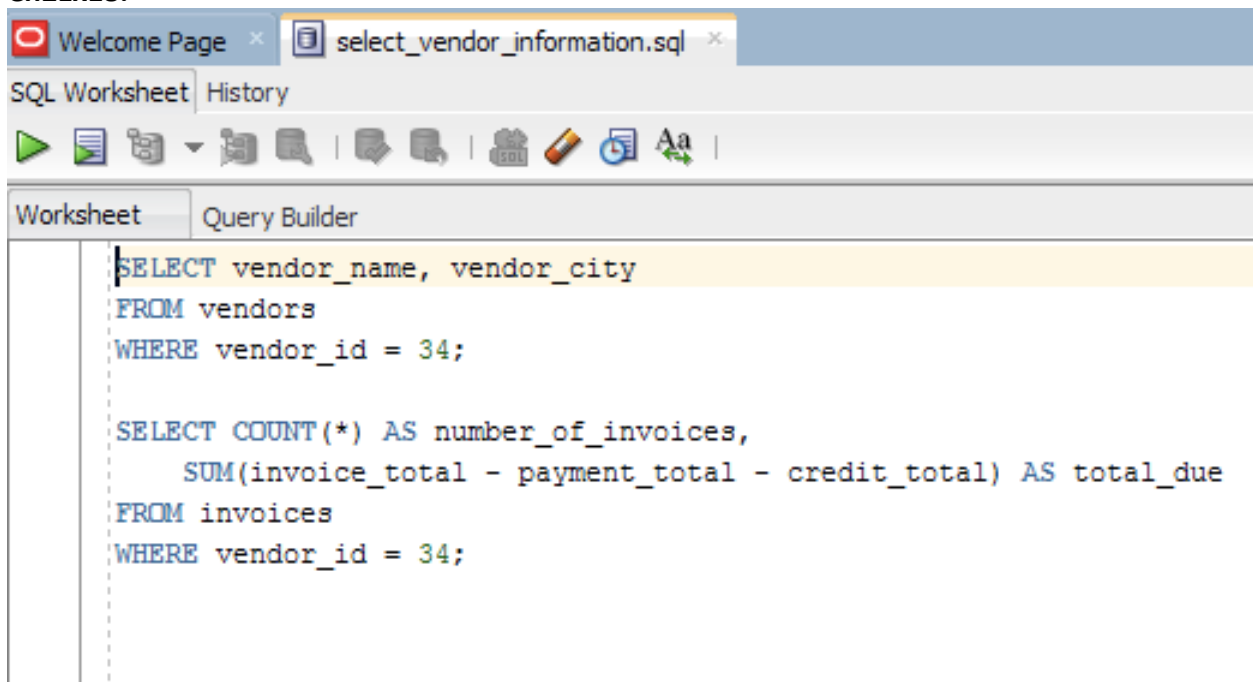
**Ch2Ex19:**

```
SELECT vendor_name, vendor_city, vendor_state
FROM vendors
ORDER BY vendor_name
```

Query Result  x

SQL   |   Fetched 50 rows in 0.161 seconds

| | VENDOR_NAME | VENDOR_CITY | VENDOR_STATE |
|---|---|---|---|
| 1 | ASC Signs | Fresno | CA |
| 2 | AT&T | Phoenix | AZ |
| 3 | Abbey Office Furnishings | Fresno | CA |
| 4 | American Booksellers Assoc | Tarrytown | NY |
| 5 | American Express | Los Angeles | CA |
| 6 | Ascom Hasler Mailing Systems | Shelton | CT |

**Ch2Ex20:**

File   Edit   View   Navigate   Run   Source

| New... | Ctrl-N |
| Open... | Ctrl-O |
| Reopen | ▶ |
| Close | Ctrl-F4 |
| Close All | Ctrl+Shift-F4 |
| Save | Ctrl-S |
| Save As... | |
| Save All | |
| Rename... | |
| Data Modeler | ▶ |
| Compare With | ▶ |
| Replace With | ▶ |
| Page Setup... | |
| Print... | Ctrl-P |
| Print Preview... | |
| Print Area | ▶ |
| E... | Alt-F4 |

VENDOR_CONTACTS

**Ch3Ex7:**

```
Worksheet    Query Builder
1  SELECT invoice_due_date as "Due Date", invoice_total as "Invoice Total",
2      invoice_total * .1 as "10%",
3      (invoice_total * .1 + invoice_total) as "Plus 10%"
4  FROM Invoices
5  WHERE invoice_total >= 500 AND invoice_total <= 1000
6  ORDER BY invoice_due_date desc
```

Query Result  ×

SQL | All Rows Fetched: 12 in 0.005 seconds

| | Due Date | Invoice Total | 10% | Plus 10% |
|---|---|---|---|---|
| 1 | 09-JUL-08 | 904.14 | 90.414 | 994.554 |
| 2 | 24-JUN-08 | 662 | 66.2 | 728.2 |
| 3 | 18-JUN-08 | 503.2 | 50.32 | 553.52 |
| 4 | 13-JUN-08 | 856.92 | 85.692 | 942.612 |
| 5 | 11-JUN-08 | 639.77 | 63.977 | 703.747 |
| 6 | 09-JUN-08 | 579.42 | 57.942 | 637.362 |
| 7 | 03-JUN-08 | 601.95 | 60.195 | 662.145 |
| 8 | 21-MAY-08 | 953.1 | 95.31 | 1048.41 |

**Ch4Ex4:**

```
Worksheet    Query Builder
1  SELECT v.vendor_name, i.invoice_date,
2      i.invoice_number, il.invoice_sequence, il.line_item_amt
3  FROM Vendors v
4  INNER JOIN Invoices i
5      ON v.vendor_id = i.vendor_id
6  INNER JOIN invoice_line_items il
7      ON i.invoice_id = il.invoice_id
```

Query Result  ×

SQL | All Rows Fetched: 118 in 0.103 seconds

| | VENDOR_NAME | INVOICE_DATE | INVOICE_NU... | INV... | LINE_ITE... |
|---|---|---|---|---|---|
| 1 | Data Reproductions Corp | 20-JUN-08 | 39104 | 1 | 85.31 |
| 2 | Data Reproductions Corp | 18-JUL-08 | 40318 | 1 | 21842 |
| 3 | Cardinal Business Media, Inc. | 01-JUN-08 | 134116 | 1 | 90.36 |
| 4 | Cardinal Business Media, Inc. | 01-JUN-08 | 133560 | 1 | 175 |
| 5 | Wang Laboratories, Inc. | 16-APR-08 | MABO1489 | 1 | 936.93 |
| 6 | Reiter's Scientific & Pro Books | 17-APR-08 | C73-24 | 1 | 600 |
| 7 | Ingram | 23-MAY-08 | 31359783 | 1 | 1575 |
| 8 | Ingram | 23-MAY-08 | 31361833 | 1 | 579.42 |
| 9 | Computerworld | 31-MAY-08 | 367447 | 1 | 2433 |

**Ch4Ex7:**

| Worksheet | Query Builder |
|---|---|

```
 1  SELECT vendor_name, vendor_state
 2  FROM Vendors
 3  WHERE vendor_state = 'CA'
 4
 5  UNION
 6
 7  SELECT vendor_name, 'Outside CA'
 8  FROM Vendors
 9  WHERE vendor_state <> 'CA'
10  ORDER BY vendor_name
```

▲▼

▶ Query Result ✕

📌 🖨 ⟳ ⓧ SQL | Fetched 50 rows in 0.015 seconds

| | VENDOR_NAME | VENDOR_STATE |
|---|---|---|
| 1 | ASC Signs | CA |
| 2 | AT&T | Outside CA |
| 3 | Abbey Office Furnishings | CA |
| 4 | American Booksellers Assoc | Outside CA |
| 5 | American Express | CA |
| 6 | Ascom Hasler Mailing Systems | Outside CA |
| 7 | Aztek Label | CA |
| 8 | BFI Industries | CA |
| 9 | Baker & Taylor Books | Outside CA |

**Ch5Ex3:**

```sql
1  SELECT v.vendor_name, COUNT(i.vendor_id) as "Vendor Count",
2      SUM(i.invoice_total) as "Invoice Total"
3  FROM Vendors v
4  INNER JOIN Invoices i
5      ON v.vendor_id = i.vendor_id
6  GROUP BY v.vendor_name
7  ORDER BY "Vendor Count" DESC
```

Query Result ✕

SQL | All Rows Fetched: 34 in 0.025 seconds

| | VENDOR_NAME | Vendor Count | Invoice Total |
|---|---|---|---|
| 1 | Federal Express Corporation | 47 | 4378.02 |
| 2 | United Parcel Service | 9 | 23177.96 |
| 3 | Zylka Design | 8 | 6940.25 |
| 4 | Pacific Bell | 6 | 171.01 |
| 5 | Malloy Lithographing Inc | 5 | 119892.41 |
| 6 | Roadway Package System, Inc | 4 | 43.67 |
| 7 | Blue Cross | 3 | 564 |
| 8 | IBM | 2 | 1200.12 |
| 9 | Data Reproductions Corp | 2 | 21927.31 |

**Ch5Ex7:**

```sql
1  SELECT v.vendor_name, COUNT(DISTINCT il.account_number)
2  FROM invoice_line_items il
3  INNER JOIN invoices i
4      ON il.invoice_id = i.invoice_id
5
6  INNER JOIN vendors v
7      ON i.vendor_id = v.vendor_id
8
9  GROUP BY v.vendor_name
10 HAVING  COUNT(DISTINCT il.account_number) > 1
11 ORDER BY v.vendor_name
```

Query Result  x

SQL  | All Rows Fetched: 3 in 0.014 seconds

| | VENDOR_NAME | COUNT(DISTINCTIL.ACCOUNT_NUMBER) |
|---|---|---|
| 1 | Roadway Package System, Inc | 2 |
| 2 | Wells Fargo Bank | 4 |
| 3 | Zylka Design | 3 |

**Ch6Ex1:**

```sql
1
2 SELECT DISTINCT vendor_name
3 FROM vendors
4 WHERE vendor_id IN
5     (SELECT vendor_id FROM invoices)
6 ORDER BY vendor_name
```

Query Result ×

SQL | All Rows Fetched: 34 in 0.018 seconds

| | VENDOR_NAME |
|---|---|
| 1 | Abbey Office Furnishings |
| 2 | Bertelsmann Industry Svcs. Inc |
| 3 | Blue Cross |
| 4 | Cahners Publishing Company |
| 5 | Cardinal Business Media, Inc. |
| 6 | Coffee Break Service |
| 7 | Compuserve |

**Ch6Ex5:**

```
1
2 SELECT DISTINCT vendor_name
3 FROM vendors
4 WHERE vendor_id IN
5     (SELECT vendor_id FROM invoices)
6 ORDER BY vendor_name
```

Query Result ×

SQL | All Rows Fetched: 34 in 0.018 seconds

| | VENDOR_NAME |
|---|---|
| 1 | Abbey Office Furnishings |
| 2 | Bertelsmann Industry Svcs. Inc |
| 3 | Blue Cross |
| 4 | Cahners Publishing Company |
| 5 | Cardinal Business Media, Inc. |
| 6 | Coffee Break Service |
| 7 | Compuserve |

**Ch6Ex6:**

```
1 WITH max_invoices
2 AS
3 (SELECT MAX(invoice_total) as max_invoice
4 FROM invoices
5 WHERE invoice_total - credit_total - payment_total > 0
6 GROUP BY vendor_id)
7
8 SELECT SUM(max_invoice) as "Sum Of All"
9 FROM max_invoices
```

Query Result ×

SQL | All Rows Fetched: 1 in 0.003 seconds

| | Sum Of All |
|---|---|
| 1 | 52434.53 |

**Ch7Ex1:**

```sql
1  INSERT INTO invoices (invoice_id, vendor_id, invoice_number, invoice_date, invoice_total,
2      payment_total, credit_total, terms_id, invoice_due_date, payment_date)
3  VALUES (115, 32, 'AX-014-027', TO_DATE('1-AUG-2008', 'DD-MON-RR'),
4      434.58, 0.00 ,0.00, 2,  TO_DATE('31-AUG-2008', 'DD-MON-RR'), null)
```

Script Output ×  ▷ Query Result ×

SQL | All Rows Fetched: 115 in 0.088 seconds

| INVOICE_ID | VENDOR_ID | INVOICE_NUMBER | INVOICE_DATE | INVOICE_TOTAL | PAYMENT_TOTAL | CREDIT_ |
|---|---|---|---|---|---|---|
| 1 | 115 | 32 AX-014-027 | 01-AUG-08 | 434.58 | 0 | |
| 2 | 1 | 34 QP58872 | 25-FEB-08 | 116.54 | 116.54 | |
| 3 | 2 | 34 Q545443 | 14-MAR-08 | 1083.58 | 1083.58 | |
| 4 | 3 | 110 P-0608 | 11-APR-08 | 20551 18 | 0 | |

**Ch7Ex2:**

```
1  UPDATE vendors
2  SET default_account_number = 403
3  WHERE default_account_number = 400
```

Script Output ✕

Task completed in 0.043 seconds

6 rows updated.

Script Output ✕   Query Result ✕

SQL | Fetched 50 rows in 0.062 seconds

| ENDOR_CONTACT_LAST_NAME | VENDOR_CONTACT_FIRST_NAME | DEFAULT_TERMS_ID | DEFAULT_ACCOUNT_NUMBER |
|---|---|---|---|
| 1 dondo | Cesar | 3 | 403 |
| 2 ielson | Rachael | 2 | 570 |
| 3 ndra | Zev | 3 | 570 |
| 4 ardo | Salina | 3 | 589 |
| 5 dlon | Daniel | 3 | 540 |

**Ch7Ex4:**

```
1   DELETE FROM INVOICES
2   WHERE invoice_id = 115
```

Script Output ×

| Task completed in 0.04 seconds

1 row deleted.

**Ch7Ex5:**

```
1   ROLLBACK;
```

| Task completed in 0.046

Rollback complete.

Script Output ✕  Query Result ✕

SQL | All Rows Fetched: 115 in 0.088 seconds

| | INVOICE_ID | VENDOR_ID | INVOICE_NUMBER | INVOICE_DATE | INVOICE_TOTAL | PAYMENT_TOTAL | CREDIT_ |
|---|---|---|---|---|---|---|---|
| 1 | 115 | 32 | AX-014-027 | 01-AUG-08 | 434.58 | 0 | |
| 2 | 1 | 34 | QP58872 | 25-FEB-08 | 116.54 | 116.54 | |
| 3 | 2 | 34 | Q545443 | 14-MAR-08 | 1083.58 | 1083.58 | |
| 4 | 3 | 110 | P-0608 | 11-APR-08 | 20551.18 | 0 | |