*Victor Martinez Castro* ITI-2180 Foundations of Data and Database Management

**Problem A (traditional)**

SELECT

p.gift

FROM

books b,

promotion p

WHERE

b.retail BETWEEN p.minretail AND p.maxretail

AND b.title LIKE 'SHORTEST POEMS';

GIFT

---------------

BOOK COVER

**Problem B (ANSI)**

SELECT

gift

FROM

books

JOIN promotion ON retail BETWEEN minretail AND maxretail

AND title LIKE 'SHORTEST POEMS';

GIFT

---------------

BOOK COVER

**Problem C (traditional)**

SELECT

title,

o.order#,

state

FROM

customers c,

orders o,

orderitems i,

books b

WHERE

c.customer# (+) = o.customer#

AND o.order# (+) = i.order#

AND i.isbn (+) = b.isbn;

TITLE ORDER# ST

------------------------------ ---------- --

BODYBUILD IN 10 MINUTES A DAY 1003 FL

COOKING WITH MUSHROOMS 1003 FL

DATABASE IMPLEMENTATION 1003 FL

COOKING WITH MUSHROOMS 1018 FL

DATABASE IMPLEMENTATION 1018 FL

E-BUSINESS THE EASY WAY 1006 FL

PAINLESS CHILD-REARING 1016 FL

COOKING WITH MUSHROOMS 1008 ID

COOKING WITH MUSHROOMS 1000 WA

REVENGE OF MICKEY 1009 WA

COOKING WITH MUSHROOMS 1009 WA

TITLE ORDER# ST

------------------------------ ---------- --

THE WOK WAY TO COOK 1026 TX

COOKING WITH MUSHROOMS 1026 TX

THE WOK WAY TO COOK 1025 TX

COOKING WITH MUSHROOMS 1025 TX

HOLY GRAIL OF ORACLE 1007 TX

BIG BEAR AND LITTLE DOVE 1007 TX

DATABASE IMPLEMENTATION 1007 TX

E-BUSINESS THE EASY WAY 1007 TX

REVENGE OF MICKEY 1014 TX

COOKING WITH MUSHROOMS 1020 WY

PAINLESS CHILD-REARING 1001 GA

TITLE ORDER# ST

------------------------------ ---------- --

HOW TO MANAGE THE MANAGER 1001 GA

PAINLESS CHILD-REARING 1011 GA

DATABASE IMPLEMENTATION 1002 IL

DATABASE IMPLEMENTATION 1013 WY

BIG BEAR AND LITTLE DOVE 1017 FL

REVENGE OF MICKEY 1012 MI

HANDCRANKED COMPUTERS 1012 MI

PAINLESS CHILD-REARING 1012 MI

BIG BEAR AND LITTLE DOVE 1012 MI

REVENGE OF MICKEY 1019 GA

DATABASE IMPLEMENTATION 1010 NJ

TITLE ORDER# ST

------------------------------ ---------- --

PAINLESS CHILD-REARING 1004 NJ

COOKING WITH MUSHROOMS 1015 NJ

HOW TO GET FASTER PIZZA

SHORTEST POEMS

BUILDING A CAR WITH TOOTHPICKS

38 rows selected.

**Problem D (ANSI)**

SELECT

title,

order#,

state

FROM

books

LEFT OUTER JOIN orderitems USING ( isbn )

LEFT OUTER JOIN orders USING ( order# )

LEFT OUTER JOIN customers USING ( customer# );

TITLE ORDER# ST

------------------------------ ---------- --

BODYBUILD IN 10 MINUTES A DAY 1003 FL

COOKING WITH MUSHROOMS 1003 FL

DATABASE IMPLEMENTATION 1003 FL

COOKING WITH MUSHROOMS 1018 FL

DATABASE IMPLEMENTATION 1018 FL

E-BUSINESS THE EASY WAY 1006 FL

PAINLESS CHILD-REARING 1016 FL

COOKING WITH MUSHROOMS 1008 ID

COOKING WITH MUSHROOMS 1000 WA

REVENGE OF MICKEY 1009 WA

COOKING WITH MUSHROOMS 1009 WA

TITLE ORDER# ST

------------------------------ ---------- --

THE WOK WAY TO COOK 1026 TX

COOKING WITH MUSHROOMS 1026 TX

THE WOK WAY TO COOK 1025 TX

COOKING WITH MUSHROOMS 1025 TX

HOLY GRAIL OF ORACLE 1007 TX

BIG BEAR AND LITTLE DOVE 1007 TX

DATABASE IMPLEMENTATION 1007 TX

E-BUSINESS THE EASY WAY 1007 TX

REVENGE OF MICKEY 1014 TX

COOKING WITH MUSHROOMS 1020 WY

PAINLESS CHILD-REARING 1001 GA

TITLE ORDER# ST

------------------------------ ---------- --

HOW TO MANAGE THE MANAGER 1001 GA

PAINLESS CHILD-REARING 1011 GA

DATABASE IMPLEMENTATION 1002 IL

DATABASE IMPLEMENTATION 1013 WY

BIG BEAR AND LITTLE DOVE 1017 FL

REVENGE OF MICKEY 1012 MI

HANDCRANKED COMPUTERS 1012 MI

PAINLESS CHILD-REARING 1012 MI

BIG BEAR AND LITTLE DOVE 1012 MI

REVENGE OF MICKEY 1019 GA

DATABASE IMPLEMENTATION 1010 NJ

TITLE ORDER# ST

------------------------------ ---------- --

PAINLESS CHILD-REARING 1004 NJ

COOKING WITH MUSHROOMS 1015 NJ

HOW TO GET FASTER PIZZA

SHORTEST POEMS

BUILDING A CAR WITH TOOTHPICKS

38 rows selected.

**Problem E (traditional)**

SELECT

e.fname

|| ' '

|| e.lname "Employee",

e.job,

m.fname

|| ' '

|| m.lname "Manager"

FROM

employees e,

employees m

WHERE

m.empno (+) = e.mgr

ORDER BY

m.mgr;

Employee JOB Manager

------------------------------------ --------- ------------------------------------

SUE STUART MTech1 LARRY JONES

SAM SMITH GTech1 BEN KING

BEN KING GTECH2

LARRY JONES MTech2 BEN KING

JIM POTTS GTech1 BEN KING

**Problem F (ANSI)**

SELECT

e.fname

|| ' '

|| e.lname "Employee",

e.job,

m.fname

|| ' '

|| m.lname "Manager"

FROM

employees e

LEFT OUTER JOIN employees m ON m.empno = e.mgr

ORDER BY

m.mgr;

Employee JOB Manager

------------------------------------ --------- ------------------------------------

SUE STUART MTech1 LARRY JONES

SAM SMITH GTech1 BEN KING

BEN KING GTECH2

LARRY JONES MTech2 BEN KING

JIM POTTS GTech1 BEN KING

**Problem G (traditional)**

SELECT

lname

|| ' '

|| fname AS "Author Name"

FROM

author a,

bookauthor ba,

books b

WHERE

a.authorid = ba.authorid

AND ba.isbn = b.isbn

AND ( b.retail - b.cost ) / b.cost >.8;

Author Name

---------------------

WHITE LISA

BAKER JACK

FIELDS OSCAR

ROBINSON ROBERT

WHITE WILLIAM

**Problem H (ANSI)**

SELECT

lname

|| ' '

|| fname AS "Author Name"

FROM

author a

JOIN bookauthor ba USING ( authorid )

JOIN books b USING ( isbn )

WHERE

( b.retail - b.cost ) / b.cost >.8;

Author Name

---------------------

WHITE LISA

BAKER JACK

FIELDS OSCAR

ROBINSON ROBERT

WHITE WILLIAM

**Problem I (traditional)**

SELECT

b.title

FROM

books b,

orderitems i

WHERE

b.isbn = i.isbn (+)

MINUS

SELECT

b.title

FROM

books b,

orderitems i

WHERE

b.isbn = i.isbn;

TITLE

------------------------------

BUILDING A CAR WITH TOOTHPICKS

HOW TO GET FASTER PIZZA

SHORTEST POEMS

**Problem J (ANSI)**

SELECT

title

FROM

books

LEFT OUTER JOIN orderitems USING ( isbn )

MINUS

SELECT

title

FROM

books

JOIN orderitems using (isbn);

TITLE

------------------------------

BUILDING A CAR WITH TOOTHPICKS

HOW TO GET FASTER PIZZA

SHORTEST POEMS