*Gabriel Nestor* ITI-2180 Foundations of Data and Database Management

**Problem A (traditional)**

**CODE:**

SELECT TITLE, GIFT

FROM BOOKS B, PROMOTION P

WHERE (B.TITLE = 'SHORTEST POEMS') AND (B.RETAIL BETWEEN P.MINRETAIL AND P.MAXRETAIL);

**OUTPUT:**

TITLE GIFT

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

SHORTEST POEMS BOOK COVER

**Problem B (ANSI)**

**CODE:**

SELECT TITLE, GIFT

FROM BOOKS JOIN PROMOTION

ON RETAIL BETWEEN MINRETAIL AND MAXRETAIL

WHERE (TITLE = 'SHORTEST POEMS');

**OUTPUT:**

TITLE GIFT

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

SHORTEST POEMS BOOK COVER

**Problem C (traditional)**

**CODE:**

SELECT TITLE, OI.ORDER#, STATE

FROM BOOKS B, ORDERITEMS OI, ORDERS O, CUSTOMERS C

WHERE (B.ISBN = OI.ISBN(+)) AND (OI.ORDER# = O.ORDER#(+)) AND (O.CUSTOMER# = C.CUSTOMER#(+))

ORDER BY TITLE, ORDER#;

**OUTPUT:**

TITLE ORDER# ST

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

BIG BEAR AND LITTLE DOVE 1007 TX

BIG BEAR AND LITTLE DOVE 1012 MI

BIG BEAR AND LITTLE DOVE 1017 FL

BODYBUILD IN 10 MINUTES A DAY 1003 FL

BUILDING A CAR WITH TOOTHPICKS

COOKING WITH MUSHROOMS 1000 WA

COOKING WITH MUSHROOMS 1003 FL

COOKING WITH MUSHROOMS 1008 ID

COOKING WITH MUSHROOMS 1009 WA

COOKING WITH MUSHROOMS 1015 NJ

COOKING WITH MUSHROOMS 1018 FL

TITLE ORDER# ST

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

COOKING WITH MUSHROOMS 1020 WY

COOKING WITH MUSHROOMS 1022 TX

DATABASE IMPLEMENTATION 1002 IL

DATABASE IMPLEMENTATION 1003 FL

DATABASE IMPLEMENTATION 1007 TX

DATABASE IMPLEMENTATION 1010 NJ

DATABASE IMPLEMENTATION 1013 WY

DATABASE IMPLEMENTATION 1018 FL

E-BUSINESS THE EASY WAY 1006 FL

E-BUSINESS THE EASY WAY 1007 TX

HANDCRANKED COMPUTERS 1012 MI

TITLE ORDER# ST

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

HOLY GRAIL OF ORACLE 1007 TX

HOW TO GET FASTER PIZZA

HOW TO MANAGE THE MANAGER 1001 GA

PAINLESS CHILD-REARING 1001 GA

PAINLESS CHILD-REARING 1004 NJ

PAINLESS CHILD-REARING 1011 GA

PAINLESS CHILD-REARING 1012 MI

PAINLESS CHILD-REARING 1016 FL

REVENGE OF MICKEY 1009 WA

REVENGE OF MICKEY 1012 MI

REVENGE OF MICKEY 1014 TX

TITLE ORDER# ST

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

REVENGE OF MICKEY 1019 GA

SHORTEST POEMS 1005 GA

THE WOK WAY TO COOK 1022 TX

36 rows selected.

**Problem D (ANSI)**

**CODE:**

SELECT TITLE, ORDER#, STATE

FROM BOOKS LEFT OUTER JOIN ORDERITEMS USING (ISBN) LEFT OUTER JOIN ORDERS USING (ORDER#) LEFT OUTER JOIN CUSTOMERS USING (CUSTOMER#)

ORDER BY TITLE, ORDER#;

**OUTPUT:**

TITLE ORDER# ST

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

BIG BEAR AND LITTLE DOVE 1007 TX

BIG BEAR AND LITTLE DOVE 1012 MI

BIG BEAR AND LITTLE DOVE 1017 FL

BODYBUILD IN 10 MINUTES A DAY 1003 FL

BUILDING A CAR WITH TOOTHPICKS

COOKING WITH MUSHROOMS 1000 WA

COOKING WITH MUSHROOMS 1003 FL

COOKING WITH MUSHROOMS 1008 ID

COOKING WITH MUSHROOMS 1009 WA

COOKING WITH MUSHROOMS 1015 NJ

COOKING WITH MUSHROOMS 1018 FL

TITLE ORDER# ST

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

COOKING WITH MUSHROOMS 1020 WY

COOKING WITH MUSHROOMS 1022 TX

DATABASE IMPLEMENTATION 1002 IL

DATABASE IMPLEMENTATION 1003 FL

DATABASE IMPLEMENTATION 1007 TX

DATABASE IMPLEMENTATION 1010 NJ

DATABASE IMPLEMENTATION 1013 WY

DATABASE IMPLEMENTATION 1018 FL

E-BUSINESS THE EASY WAY 1006 FL

E-BUSINESS THE EASY WAY 1007 TX

HANDCRANKED COMPUTERS 1012 MI

TITLE ORDER# ST

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

HOLY GRAIL OF ORACLE 1007 TX

HOW TO GET FASTER PIZZA

HOW TO MANAGE THE MANAGER 1001 GA

PAINLESS CHILD-REARING 1001 GA

PAINLESS CHILD-REARING 1004 NJ

PAINLESS CHILD-REARING 1011 GA

PAINLESS CHILD-REARING 1012 MI

PAINLESS CHILD-REARING 1016 FL

REVENGE OF MICKEY 1009 WA

REVENGE OF MICKEY 1012 MI

REVENGE OF MICKEY 1014 TX

TITLE ORDER# ST

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

REVENGE OF MICKEY 1019 GA

SHORTEST POEMS 1005 GA

THE WOK WAY TO COOK 1022 TX

36 rows selected.

**Problem E (traditional)**

**CODE:**

SELECT E.FNAME || ' ' || E.LNAME AS "Employees", E.JOB, E2.FNAME || ' ' || E2.LNAME AS "Manager"

FROM EMPLOYEES E, EMPLOYEES E2

WHERE (E.MGR = E2.EMPNO(+))

ORDER BY E2.FNAME, E2.LNAME;

**OUTPUT:**

Employees JOB Manager

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

LARRY JONES MTech2 BEN KING

SAM SMITH GTech1 BEN KING

JIM POTTS GTech1 BEN KING

SUE STUART MTech1 LARRY JONES

BEN KING GTECH2

**Problem F (ANSI)**

**CODE:**

SELECT E.FNAME || ' ' || E.LNAME AS "Employees", E.JOB, E2.FNAME || ' ' || E2.LNAME AS "Manager"

FROM EMPLOYEES E LEFT OUTER JOIN EMPLOYEES E2 ON (E2.EMPNO = E.MGR)

ORDER BY E2.FNAME, E2.LNAME;

**OUTPUT:**

Employees JOB Manager

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

LARRY JONES MTech2 BEN KING

SAM SMITH GTech1 BEN KING

JIM POTTS GTech1 BEN KING

SUE STUART MTech1 LARRY JONES

BEN KING GTECH2

**Problem G (traditional)**

**CODE:**

SELECT FNAME || ' ' || LNAME AS AUTHORS

FROM AUTHOR A, BOOKAUTHOR BA, BOOKS B

WHERE (A.AUTHORID = BA.AUTHORID) AND (BA.ISBN = B.ISBN) AND ((RETAIL - COST)/COST > .8)

ORDER BY FNAME, LNAME;

**OUTPUT:**

AUTHORS

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

JACK BAKER

LISA WHITE

OSCAR FIELDS

ROBERT ROBINSON

WILLIAM WHITE

**Problem H (ANSI)**

**CODE:**

SELECT FNAME || ' ' || LNAME AS AUTHORS

FROM AUTHOR NATURAL JOIN BOOKAUTHOR NATURAL JOIN BOOKS

WHERE ((RETAIL - COST)/COST > .8)

ORDER BY FNAME, LNAME;

**OUTPUT:**

AUTHORS

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

JACK BAKER

LISA WHITE

OSCAR FIELDS

ROBERT ROBINSON

WILLIAM WHITE

**Problem I (traditional)**

**CODE:**

SELECT TITLE

FROM BOOKS B, ORDERITEMS OI

WHERE (B.ISBN = OI.ISBN(+)) AND (OI.ORDER# IS NULL)

ORDER BY TITLE;

**OUTPUT:**

TITLE

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

BUILDING A CAR WITH TOOTHPICKS

HOW TO GET FASTER PIZZA

**Problem J (ANSI)**

**CODE:**

SELECT TITLE

FROM BOOKS LEFT OUTER JOIN ORDERITEMS USING (ISBN)

WHERE (ORDER# IS NULL)

ORDER BY TITLE;

**OUTPUT:**

TITLE

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

BUILDING A CAR WITH TOOTHPICKS

HOW TO GET FASTER PIZZA