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

**Problem A**

CODE:

INSERT INTO orders (

order#,

customer#,

orderdate

) VALUES (

1021,

1009,

'20-JUL-2009'

);

SELECT

ORDER#, CUSTOMER#, ORDERDATE

FROM

orders;

OUTPUT:

1 row inserted.

ORDER# CUSTOMER# ORDERDATE

1021 1009 20-JUL-09

1000 1005 31-MAR-19

1001 1010 31-MAR-19

1002 1011 31-MAR-19

1003 1001 01-APR-19

1004 1020 01-APR-19

1005 1018 01-APR-19

1006 1003 01-APR-19

1007 1007 02-APR-19

1008 1004 02-APR-19

1009 1005 03-APR-19

1010 1019 03-APR-19

1011 1010 03-APR-19

1012 1017 03-APR-19

1013 1014 03-APR-19

1014 1007 04-APR-19

1015 1020 04-APR-19

1016 1003 04-APR-19

1017 1015 04-APR-19

1018 1001 05-APR-19

1019 1018 05-APR-19

1020 1008 05-APR-19

22 rows selected.

**Problem B**

CODE:

UPDATE ORDERS

SET SHIPZIP = 33222

WHERE ORDER# = 1017;

SELECT ORDER#, SHIPZIP

FROM ORDERS;

4/5 Know your datatypes.

OUTPUT:

1 row updated.

ORDER# SHIPZIP

1021

1000 98114

1001 30314

1002 60605

1003 32328

1004 08601

1005 31206

1006 32307

1007 78710

1008 83707

1009 98110

1010 07960

1011 30311

1012 49002

1013 82414

1014 78710

1015 08606

1016 32307

1017 33222

1018 32328

1019 31206

1020 82003

22 rows selected.

**Problem C**

CODE:

COMMIT;

ROLLBACK;

4/5 Commit then Rollback, what does that mean?

SELECT

order#,

customer#,

orderdate,

shipzip

FROM

orders;

OUTPUT:

Commit complete.

Rollback complete.

ORDER# CUSTOMER# ORDERDATE SHIPZIP

1021 1009 20-JUL-09

1000 1005 31-MAR-19 98114

1001 1010 31-MAR-19 30314

1002 1011 31-MAR-19 60605

1003 1001 01-APR-19 32328

1004 1020 01-APR-19 08601

1005 1018 01-APR-19 31206

1006 1003 01-APR-19 32307

1007 1007 02-APR-19 78710

1008 1004 02-APR-19 83707

1009 1005 03-APR-19 98110

1010 1019 03-APR-19 07960

1011 1010 03-APR-19 30311

1012 1017 03-APR-19 49002

1013 1014 03-APR-19 82414

1014 1007 04-APR-19 78710

1015 1020 04-APR-19 08606

1016 1003 04-APR-19 32307

1017 1015 04-APR-19 33222

1018 1001 05-APR-19 32328

1019 1018 05-APR-19 31206

1020 1008 05-APR-19 82003

22 rows selected.

**Problem D**

CODE:

INSERT INTO orders (

order#,

customer#,

orderdate

) VALUES (

1022,

2000,

'06-AUG-2009'

);

OUTPUT:

Error starting at line : 1 in command -

INSERT INTO orders (

order#,

customer#,

orderdate

) VALUES (

1022,

2000,

'06-AUG-2009'

)

Error report -

ORA-02291: integrity constraint (GENESTOR.ORDERS\_CUSTOMER#\_FK) violated - parent key not found

**The customer# 2000 was not found in the parent table for the foreign key.**

**Problem E**

CODE:

INSERT INTO orders (

order#,

customer#,

orderdate

) VALUES (

1023,

1009,

sysdate

);

SELECT

order#,

customer#,

orderdate

FROM

orders;

OUTPUT:

1 row inserted.

ORDER# CUSTOMER# ORDERDATE

1021 1009 20-JUL-09

1023 1009 29-SEP-22

1000 1005 31-MAR-19

1001 1010 31-MAR-19

1002 1011 31-MAR-19

1003 1001 01-APR-19

1004 1020 01-APR-19

1005 1018 01-APR-19

1006 1003 01-APR-19

1007 1007 02-APR-19

1008 1004 02-APR-19

1009 1005 03-APR-19

1010 1019 03-APR-19

1011 1010 03-APR-19

1012 1017 03-APR-19

1013 1014 03-APR-19

1014 1007 04-APR-19

1015 1020 04-APR-19

1016 1003 04-APR-19

1017 1015 04-APR-19

1018 1001 05-APR-19

1019 1018 05-APR-19

1020 1008 05-APR-19

23 rows selected.

**Nothing unusual happened which is unusual.**

**Problem F**

CODE:

SELECT ORDER#

FROM ORDERS;

DELETE FROM ORDERITEMS

WHERE ORDER# = 1005;

DELETE FROM ORDERS

WHERE ORDER# = 1005;

SELECT ORDER#

FROM ORDERS;

SAVEPOINT ONE; //Will matter in a future problem

OUTPUT:

ORDER#

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

22 rows selected.

1 row deleted.

1 row deleted.

ORDER#

1000

1001

1002

1003

1004

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

21 rows selected.

Savepoint created.

**Problem G**

CODE:

ROLLBACK;

SELECT ORDER#

FROM ORDERS

WHERE ORDER# = 1005;

SELECT ORDER#

FROM ORDERITEMS

WHERE ORDER# = 1005;

OUTPUT:

Rollback complete.

ORDER#

1005

ORDER#

1005

**Problem H**

CODE:

UPDATE BOOKS

SET COST = 20.00

WHERE ISBN = 1059831198;

4/5 Know your datatypes.

SELECT ISBN, COST

FROM BOOKS

WHERE ISBN = 1059831198;

OUTPUT:

1 row updated.

ISBN COST

1059831198 20

**Problem I**

CODE:

SELECT TITLE, ISBN, CATEGORY

FROM BOOKS

WHERE CATEGORY = 'FITNESS';

ALTER TABLE BOOKS

MODIFY (CATEGORY VARCHAR2(18));

UPDATE BOOKS

SET CATEGORY = 'HEALTH and FITNESS'

WHERE CATEGORY = 'FITNESS';

SELECT TITLE, ISBN, CATEGORY

FROM BOOKS

WHERE CATEGORY = 'HEALTH and FITNESS';

OUTPUT:

TITLE ISBN CATEGORY

BODYBUILD IN 10 MINUTES A DAY 1059831198 FITNESS

Table BOOKS altered.

1 row updated.

TITLE ISBN CATEGORY

BODYBUILD IN 10 MINUTES A DAY 1059831198 HEALTH and FITNESS

**Problem J**

CODE:

ROLLBACK TO ONE; //**Does this count?**

SELECT ORDER#

FROM ORDERS;

OUTPUT:

Rollback complete.

ORDER#

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

22 rows selected.