*Zach Polk* CIT/ITI-2180 Foundations of Data and Database Management

**12-1**

CREATE TABLE c\_zipcodes

AS

( SELECT

customer#,

lastname,

firstname,

zip "zipcode"

FROM

customers

);

Table C\_ZIPCODES created.

**12-2**

ALTER TABLE c\_zipcodes

ADD CONSTRAINT c\_zipcodes\_pk PRIMARY KEY ( customer# );

Table C\_ZIPCODES altered.

ALTER TABLE orders

ADD CONSTRAINT c\_zipcodes\_fk FOREIGN KEY ( customer# )

REFERENCES c\_zipcodes ( customer# );

Table ORDERS altered.

**12-3**

UPDATE c\_zipcodes

SET

"zipcode" = '37210'

WHERE

customer# = 1014;

1 row updated.

UPDATE customers

SET

zip = 37210

WHERE

customer# = 1014;

1 row updated.

COMMIT;

Commit complete.

**12-4**

CREATE INDEX c\_zipcodes\_idx ON

c\_zipcodes (

"zipcode"

);

Index C\_ZIPCODES\_IDX created.

SELECT

table\_name,

index\_name,

index\_type

FROM

user\_indexes

WHERE

table\_name = 'C\_ZIPCODES';

TABLE\_NAME INDEX\_NAME INDEX\_TYPE

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C\_ZIPCODES C\_ZIPCODES\_PK NORMAL

C\_ZIPCODES C\_ZIPCODES\_IDX NORMAL

DROP INDEX c\_zipcodes\_idx;

Index C\_ZIPCODES\_IDX dropped.

**12-5**

CREATE SEQUENCE orders\_order#\_seq

INCREMENT BY 2

START WITH 1020;

Sequence ORDERS\_ORDER#\_SEQ created.

INSERT INTO orders (order#, customer#, orderdate)

values (ORDERS\_ORDER#\_SEQ.nextval, 1020, '19-NOV-20');

1 row inserted.

select order#, customer#, orderdate from orders;

ORDER# CUSTOMER# ORDERDATE

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

1000 1005 31-MAR-09

1001 1010 31-MAR-09

1002 1011 31-MAR-09

1003 1001 01-APR-09

1004 1020 01-APR-09

1005 1018 01-APR-09

1006 1003 01-APR-09

1007 1007 02-APR-09

1008 1004 02-APR-09

1009 1005 03-APR-09

1010 1019 03-APR-09

ORDER# CUSTOMER# ORDERDATE

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

1011 1010 03-APR-09

1012 1017 03-APR-09

1013 1014 03-APR-09

1014 1007 04-APR-09

1015 1020 04-APR-09

1016 1003 04-APR-09

1017 1015 04-APR-09

1018 1001 05-APR-09

1019 1018 05-APR-09

1020 1008 05-APR-09

1022 1020 19-NOV-20

22 rows selected.

Rollback;

select order# from orders;

Rollback complete.

ORDER#

----------

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

ORDER#

----------

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

21 rows selected.

**12-6**

SELECT

title

FROM

books

WHERE

category = 'COMPUTER'

AND pubid = 3

AND retail >= 30;

TITLE

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DATABASE IMPLEMENTATION

HOLY GRAIL OF ORACLE

**12-7**

SELECT

firstname

|| ' '

|| lastname "Customers in Atlanta, GA"

FROM

customers

JOIN orders USING ( customer# )

WHERE

lower(shipcity) = 'atlanta'

AND lower(shipstate) = 'ga';

Customers in Atlanta,

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JAKE LUCAS

JAKE LUCAS

**12-8**

SELECT

title,

to\_char(retail, '$999.99') "Existing Price",

to\_char(round((retail \*.05) + retail, 0) -.01, '$999.99') "Proposed Price"

FROM

books

ORDER BY

title;

TITLE Existing Proposed

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BIG BEAR AND LITTLE DOVE $8.95 $8.99

BODYBUILD IN 10 MINUTES A DAY $30.95 $31.99

BUILDING A CAR WITH TOOTHPICKS $59.95 $62.99

COOKING WITH MUSHROOMS $19.95 $20.99

DATABASE IMPLEMENTATION $55.95 $58.99

E-BUSINESS THE EASY WAY $54.50 $56.99

HANDCRANKED COMPUTERS $25.00 $25.99

HOLY GRAIL OF ORACLE $75.95 $79.99

HOW TO GET FASTER PIZZA $29.95 $30.99

HOW TO MANAGE THE MANAGER $31.95 $33.99

PAINLESS CHILD-REARING $89.95 $93.99

TITLE Existing Proposed

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REVENGE OF MICKEY $22.00 $22.99

SHORTEST POEMS $39.95 $41.99

THE WOK WAY TO COOK $28.75 $29.99

14 rows selected.

**12-9**

SELECT

customer#,

SUM(quantity) "Ordered Books"

FROM

customers

JOIN orders USING ( customer# )

JOIN orderitems USING ( order# )

GROUP BY

customer#

ORDER BY

customer#;

CUSTOMER# Ordered Books

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

1001 5

1003 2

1004 2

1005 3

1007 8

1008 1

1010 3

1011 2

1014 1

1015 2

1017 5

CUSTOMER# Ordered Books

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1018 2

1019 1

1020 3

14 rows selected.

**12-10**

CREATE VIEW book\_authors AS

SELECT

isbn,

lname,

fname

FROM

bookauthor

JOIN author USING ( authorid );

View BOOK\_AUTHORS created.

SELECT isbn, lname, fname FROM book\_authors WHERE lname= 'WHITE';

ISBN LNAME FNAME

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1915762492 WHITE WILLIAM

9247381001 WHITE WILLIAM

1915762492 WHITE LISA

2147428890 WHITE LISA