Maintaining the Data

- INSERT
- UPDATE
- DELETE
- LOAD
- UNLOAD



The INSERT Statement

INSERT INTO stock
VALUES (120, 'ANZ', 'roller blades', 195,
'crate', '4/crate');

Including a Column List

INSERT INTO stock (manu_code, stock_num)

VALUES ('ANZ', 130);

INSERT INTO stock (manu_code, stock_num)

VALUES ('NRG', 130)

Multiple statements must be separated by a semi-colon (;).

Using NULL and ZERO as Place Holders

INSERT INTO customer
VALUES (0, 'John', 'Doe', 'My Sports',
'123 Main Street', NULL, 'Menlo Park',
'CA', '94030', '415-555-1212')

NULL VALUE

Obtaining Values From a SELECT

INSERT INTO closed_orders

SELECT *

FROM orders

WHERE paid_date IS NOT NULL;

INSERT INTO stock2

SELECT stock_num, manu_code,

description, unit_price

FROM stock

WHERE unit = 'case'

The UPDATE Statement

UPDATE customer

SET company = 'College Sports',

phone = '510-655-0011'

WHERE customer num = 118

UPDATE Examples

Update one column in ALL rows

UPDATE stock
SET unit_price = unit_price * 1.05

Update three columns in selected rows

UPDATE orders

SET (ship_date, ship_weight, ship_charge) = ('3/30/94', 20.40, 10)

WHERE order_num = 1002

UPDATE With a Subquery

UPDATE orders

SET ship_instruct = 'ASAP'
WHERE order_date > '6/1/94'
AND customer_num IN
(SELECT customer_num
FROM customer
WHERE city = 'Redwood City')

The DELETE Statement

DELETE FROM customer

WHERE customer_num = 118
1 row(s) deleted.

DELETE FROM customer
WHERE customer_num = 101

692: Key value for constraint (informix.u100_1) is still being referenced.

Deleting an Unknown Number of Rows

First count how many rows will be deleted.

SELECT COUNT(*) FROM stock
WHERE description MATCHES 'tennis*';

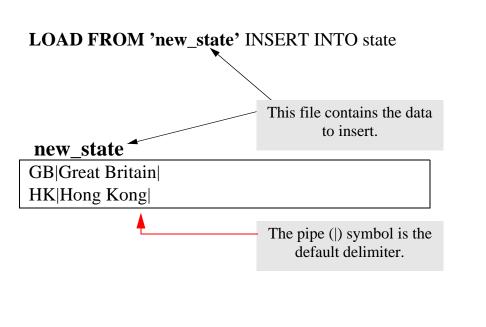
DELETE FROM stock
WHERE description MA

WHERE description MATCHES 'tennis*'

DELETE Using a Subquery

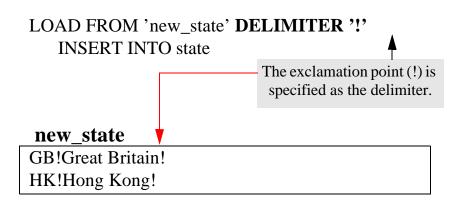
```
DELETE
FROM items
WHERE order_num IN
(SELECT order_num FROM orders
WHERE order_date < '1/1/94');
DELETE
FROM orders
WHERE order_date < '1/1/94';
```

The LOAD Statement

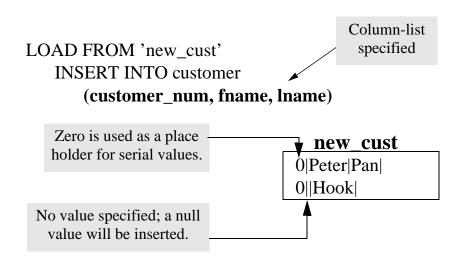




Specifying a Delimiter



Specifying Columns



The UNLOAD Statement

UNLOAD TO 'new cust' SELECT * FROM customer WHERE customer num > 120

new cust

121|Jason|Wallack|City Sports|Lake Biltmore Mall|350 W. 23rd Street|Wilmington|DE|19898|302-366-7511|

122|Cathy|O'Brian|The Sporting Life|543 Nassau Street||Princeton|NJ|08540|609-342-0054|

128|Frank|Lessor|Phoenix University|Athletic Department|1817 N. Thomas Road|Phoenix|AZ|85008|602-533-1817|



Specifying a Delimiter

UNLOAD TO 'new_cust' **DELIMITER** ';' SELECT * FROM customer WHERE customer num > 120

new cust

121; Jason; Wallack; City Sports; Lake Biltmore Mall; 350 W. 23rd Street; Wilmington; DE; 19898; 302-366-7511;

122; Cathy; O'Brian; The Sporting Life; 543 Nassau Street; Princeton; NJ; 08540; 609-342-0054;

128; Frank; Lessor; Phoenix University; Athletic Department; 1817 N. Thomas Road:Phoenix:AZ:85008:602-533-1817: