Ch 7

Hands-On Assignments

1.

CREATE USER finitiallastname

IDENTIFIED BY apassword;

2.

Connection will fail because the CREATE SESSION privilege is required.

3.

GRANT CREATE SESSION, CREATE TABLE, ALTER ANY TABLE

TO finitiallastname;

4.

CREATE ROLE customerrep;

GRANT INSERT, DELETE

ON orders

TO customerrep;

GRANT INSERT, DELETE

ON orderitems

TO customerrep;

5.

GRANT customerrep

TO finitiallastname;

6.

SELECT \*

FROM SESSION\_PRIVS;

SELECT \*

FROM SESSION\_ROLES;

7.

REVOKE delete

ON orders

FROM customerrep;

REVOKE delete

ON orderitems

FROM customerrep;

8.

REVOKE customerrep

FROM finitiallastname;

9.

DROP ROLE customerrep;

10.

DROP USER finitiallastname;

Ch 8

Hands-On Assignments

1.

SELECT lastname, firstname, state

FROM customers

WHERE state = 'NJ';

2.

SELECT order#, shipdate

FROM orders

WHERE shipdate > '01-APR-09';

3.

SELECT title, category

FROM books

WHERE category <> 'FITNESS';

4.

SELECT customer#, lastname, state

FROM customers

WHERE state = 'GA' or state = 'NJ'

ORDER BY lastname;

or

SELECT customer#, lastname, state

FROM customers

WHERE state IN ('GA', 'NJ')

ORDER BY lastname;

5.

SELECT order#, orderdate

FROM orders

WHERE orderdate < '02-APR-09';

or

SELECT order#, orderdate

FROM orders

WHERE orderdate <= '01-APR-09';

6.

SELECT lname, fname

FROM author

WHERE lname LIKE '%IN%'

ORDER BY lname, fname;

7.

SELECT lastname, referred

FROM customers

WHERE referred IS NOT NULL;

8.

a) *Note*: Pattern selected can vary

SELECT title, category

FROM books

WHERE category LIKE '%C%N%';

b)

SELECT title, category

FROM books

WHERE category = 'CHILDREN' or category = 'COOKING';

c)

SELECT title, category

FROM books

WHERE category IN ('CHILDREN', 'COOKING');

9.

SELECT isbn, title

FROM books

WHERE title LIKE '\_A\_N%'

ORDER BY title DESC;

10.

a)

SELECT title, pubdate

FROM books

WHERE category = 'COMPUTER'

AND pubdate BETWEEN '01-JAN-05' AND '31-DEC-05';

b)

SELECT title, pubdate

FROM books

WHERE category = 'COMPUTER'

AND pubdate >= '01-JAN-05' AND pubdate <= '31-DEC-05';

c)

SELECT title, pubdate

FROM books

WHERE category = 'COMPUTER' AND pubdate LIKE '%05';

Ch 9

Hands-On Assignments

1.

a)

SELECT b.title, p.contact, p.phone

FROM books b, publisher p

WHERE b.pubid = p.pubid;

b)

SELECT b.title, p.contact, p.phone

FROM books b JOIN publisher p

USING (pubid);

2.

a)

SELECT c.firstname, c.lastname, o.order#

FROM customers c, orders o

WHERE c.customer# = o.customer#

AND o.shipdate IS NULL

ORDER BY o.orderdate;

b)

SELECT c.firstname, c.lastname, o.order#

FROM customers c JOIN orders o

USING (customer#)

WHERE o.shipdate IS NULL

ORDER BY o.orderdate;

3.

a)

SELECT DISTINCT c.lastname, c.customer#

FROM books b, orders o, orderitems i, customers c

WHERE c.customer# = o.customer#

AND o.order# = i.order#

AND i.isbn = b.isbn

AND c.state = 'FL'

AND b.category = 'COMPUTER';

b)

SELECT DISTINCT c.lastname, customer#

FROM books b JOIN orderitems USING (isbn)

JOIN orders USING (order#)

JOIN customers c USING (customer#)

WHERE c.state = 'FL'

AND b.category = 'COMPUTER';

4.

a)

SELECT DISTINCT b.title

FROM customers c, orders o, orderitems i, books b

WHERE c.customer# = o.customer#

AND o.order# = i.order#

AND i.isbn = b.isbn

AND c.firstname = 'JAKE'

AND c.lastname = 'LUCAS';

b)

SELECT DISTINCT b.title

FROM customers c JOIN orders USING (customer#)

JOIN orderitems USING (order#)

JOIN books b USING (isbn)

WHERE c.firstname = 'JAKE'

AND c.lastname = 'LUCAS';

5.

a)

SELECT b.title, i.paideach-cost

FROM customers c, orders o, orderitems i, books b

WHERE c.customer# = o.customer#

AND o.order# = i.order#

AND i.isbn = b.isbn

AND c.firstname = 'JAKE'

AND c.lastname = 'LUCAS'

ORDER BY o.orderdate, i.paideach-b.cost DESC;

b)

SELECT b.title, i.paideach-b.cost

FROM customers c JOIN orders o USING (customer#)

JOIN orderitems i USING (order#)

JOIN books b USING (isbn)

WHERE c.firstname = 'JAKE'

AND c.lastname = 'LUCAS'

ORDER BY o.orderdate, i.paideach-b.cost DESC;

6.

a)

SELECT b.title

FROM books b, bookauthor ba, author a

WHERE b.isbn = ba.isbn

AND ba.authorid = a.authorid

AND a.lname = 'ADAMS';

b)

SELECT b.title

FROM books b JOIN bookauthor USING (isbn)

JOIN author a USING (authorid)

WHERE a.lname = 'ADAMS';

7.

a)

SELECT p.gift

FROM books b, promotion p

WHERE b.retail BETWEEN p.minretail AND p.maxretail

AND b.title = 'SHORTEST POEMS';

b)

SELECT p.gift

FROM books b JOIN promotion p

ON b.retail BETWEEN p.minretail AND p.maxretail

WHERE b.title = 'SHORTEST POEMS';

8.

a)

SELECT a.lname, a.fname, b.title

FROM books b, orders o, orderitems i, customers c, bookauthor t, author a

WHERE c.customer# = o.customer#

AND o.order# = i.order#

AND i.isbn = b.isbn

AND b.isbn = t.isbn

AND t.authorid = a.authorid

AND c.firstname = 'BECCA'

AND c.lastname = 'NELSON';

b)

SELECT a.lname, a.fname, b.title

FROM customers c JOIN orders USING (customer#)

JOIN orderitems USING (order#)

JOIN books b USING (isbn)

JOIN bookauthor USING (isbn)

JOIN author a USING (authorid)

WHERE c.firstname = 'BECCA'

AND c.lastname = 'NELSON';

9.

a)

SELECT b.title, o.order#, c.state

FROM books b, orders o, orderitems i, customers c

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

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

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

b)

SELECT b.title, order#, c.state

FROM books b LEFT OUTER JOIN orderitems i USING (isbn)

LEFT OUTER JOIN orders USING (order#)

LEFT OUTER JOIN customers c USING (customer#);

10.

a)

SELECT e.fname || ' ' || e.lname "Employee Name", e.job,

m.fname || ' ' || m.lname "Manager Name"

FROM employees e, employees m

WHERE e.mgr = m.empno (+)

ORDER BY "Manager Name";

b)

SELECT e.fname || ' ' || e.lname "Employee Name", e.job,

m.fname || ' ' || m.lname "Manager Name"

FROM employees e LEFT OUTER JOIN employees m

ON e.mgr = m.empno

ORDER BY "Manager Name";

Ch 10

Hands-on Assignments

1.

SELECT COUNT(\*)

FROM books

WHERE category = 'COOKING';

2.

SELECT COUNT(\*)

FROM books

WHERE retail > 30;

3.

SELECT MAX(pubdate)

FROM books;

4.

SELECT SUM((retail-cost)\*quantity)

FROM books, orders, orderitems

WHERE books.isbn = orderitems.isbn

AND orderitems.order# = orders.order#

AND customer# = 1017;

5.

SELECT MIN(retail)

FROM books

WHERE category = 'COMPUTER';

6.

SELECT AVG(SUM((retail-cost)\*quantity))

FROM books, orders, orderitems

WHERE books.isbn = orderitems.isbn

AND orderitems.order# = orders.order#

GROUP BY orders.order#;

7.

SELECT customer#, COUNT(\*)

FROM orders

GROUP BY customer#;

8.

SELECT name, category, AVG(retail)

FROM books JOIN publisher USING (pubid)

WHERE category IN('COMPUTER', 'CHILDREN')

GROUP BY name, category

HAVING AVG(retail) > 50;

9.

SELECT DISTINCT firstname, lastname

FROM customers, books, orders, orderitems

WHERE customers.customer# = orders.customer#

AND orders.order# = orderitems.order#

AND orderitems.ISBN = books.ISBN

AND (state = 'GA' OR state = 'FL')

GROUP BY orders.order#, firstname, lastname

HAVING SUM(retail\*quantity) > 80;

10.

SELECT MAX(retail)

FROM books JOIN bookauthor USING (isbn)

JOIN author USING(authorid)

WHERE lname = 'WHITE'

AND fname = 'LISA';

Ch 11

Hands-on Assignments

1.

SELECT INITCAP(firstname), INITCAP(lastname)

FROM customers;

2.

SELECT firstname, lastname, NVL2(referred, 'REFERRED', 'NOT REFERRED')

FROM customers;

3.

SELECT title, TO\_CHAR(quantity\*(paideach-cost), '$999.99')

FROM books JOIN orderitems USING (isbn)

WHERE order# = 1002;

4.

SELECT title, ROUND((retail-cost)/cost \*100, 0)||'%'

FROM books;

5.

SELECT TO\_CHAR(CURRENT\_DATE, 'DAY, HH:MI:SS')

FROM dual;

6.

SELECT title, LPAD(cost, 12, '\*')

FROM books;

7.

SELECT DISTINCT LENGTH(isbn)

FROM books;

8.

SELECT title, pubdate, SYSDATE,

TRUNC(MONTHS\_BETWEEN(SYSDATE, pubdate),0) Age

FROM books;

9.

SELECT NEXT\_DAY(SYSDATE, 'WEDNESDAY')

FROM dual;

10.

SELECT customer#, SUBSTR(zip, 3, 2), INSTR(customer#, 3)

FROM customers;