

Tutorial Letter 105/2/2018

Database Practice

ICT3722

Semester 2

School of Computing

IMPORTANT INFORMATION:

This tutorial letter contains the questions for Assignment 4.

Due date 21 September 2018

Unique Number: 833855

ICT3722-18-S2-Ass4

Justlee books database is used for all assignments.

Use the same tables and data used for assignment 1.

Read the question and if required, run the SQL against the tables and data.

Select the most relevant answer from the list of choices provided.

When you are done, logon to myUNISA, select the module code: ICT3722, select Assignment 4. Complete the online MCQ. When done submit the assignment.

Keep in mind that you cannot go back once you've submitted the assignment.

Keep a copy of your solutions should there be any queries afterwards.

Please answer the following 15 question

1. Which of the following terms represents a collection of fields?

1. record

2. field

3. character

4. file

2. Which of the following terms best describes where a group of characters that represents a customer's address would be stored in the logical design?

1. record

2. field

3. file

4. database

3. Which of the following is used to create and maintain the physical database?

1. Data mining

2. Database Management System (DBMS)

3. E-R Model

4. Systems Development Life Cycle (SDLC)

4. To indicate which database table contains the data to be selected by a query, the table name should be listed in the ____ clause.

1. FROM

2. SELECT

3. HAVING

4. WHERE

5. Which of the following commands can be used to view the structure of a table?

1. SELECT

2. CONCATENATION

3. DESCRIBE

4. none of the above
6. Which of the following statements is correct?
 1. Numeric columns are listed first in the output, followed by character columns.
 2. The columns will be listed in the results in the same order they are stored in the database table.
 3. The columns will be listed in the results in the same order they are listed in the SELECT clause of the SELECT statement.
 4. Character columns are listed first in the output, followed by numeric columns.
7. Which of the following datatypes refers to variable-length character data, where n represents the maximum length of the column?
 1. VARCHAR2(n)
 2. BFILE
 3. CHAR(n)
 4. LONG
8. How can constraints be added to a table?
 1. both 2 and 3
 2. as part of the ALTER TABLE command
 3. as part of the CREATE TABLE command
 4. as part of the PRIMARY KEY command
9. What is the maximum width that can be assigned to a DATE column?
 1. 1
 2. 8
 3. 12
 4. none of the above
10. Which of the following is a valid table name?
 1. CHAR
 2. MYTABLE
 3. SELECT
 4. DISTINCT
11. Which of the following is the standard abbreviation for the constraint FOREIGN KEY?
 1. fk
 2. fkey
 3. fky
 4. frk

12. The UNIQUE constraint differs from the PRIMARY KEY constraint in what way?
1. The UNIQUE constraint does not allow NULL values.
 2. The UNIQUE constraint allows NULL values.
 3. The UNIQUE constraint can be created at either the column level or the table level.
 4. The UNIQUE constraint ensures that a specific condition is true before a data value is added to a table.
13. Which keywords create a shared lock on a table to prevent another user from making changes to data in specified columns?
1. SELECT...LOCK
 2. SELECT...COMMIT
 3. SELECT...FOR CHANGE
 4. SELECT...FOR UPDATE
14. Which of the following commands allows a user to "undo" uncommitted changes to data?
1. UNDO
 2. UNCOMMIT
 3. ROLLBACK
 4. UNLOCK
15. Which of the following is a valid statement?
1. When rows are added to a table, the column names can be omitted if an entry is only being made into the first column.
 2. When rows are added to a table, the column names can be omitted if the values are listed in the same order as the columns are listed in the table.
 3. If rows are being added to a table with the UPDATE command, an entry must be made into each column contained in the table.
 4. none of the above
16. Which of the following is not a valid SQL command?
1. INSERT INTO acctmantable
AS (SELECT amid, amname, amedate, region
FROM acctmanager
WHERE amedate <= SYSDATE);
 2. INSERT INTO acctmantable
SELECT amid, amname, amedate, region
FROM acctmanager
WHERE amedate <= SYSDATE;
 3. INSERT INTO acctmantable
(SELECT amid, amname, amedate, region
FROM acctmanager

WHERE amedate <= SYSDATE);

4. none of the above

17. Which of the following commands is used to add rows to a table?

1. INSERT

2. UPDATE

3. ADD

4. ENTER

18. Based on the structure of the CUSTOMERS table, which of the following is a valid SQL statement?

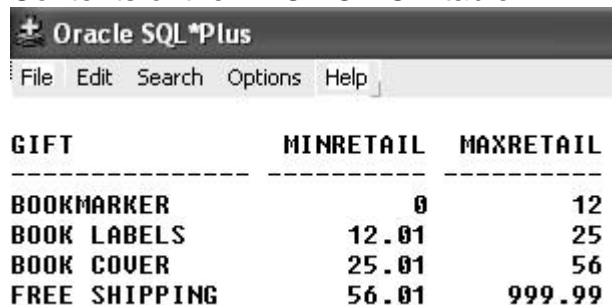
1. CREATE PUBLIC INDEX customers_name_idx
ON customers (lastname, firstname);

2. CREATE INDEX customers_name_idx
ON customers (lastname, firstname);

3. CREATE PUBLIC INDEX customers_name_idx
ON customers (lastname);

4. CREATE PUBLIC INDEX customers_name_idx
FOR customers (lastname);

Contents of the PROMOTION table



GIFT	MINRETAIL	MAXRETAIL
BOOKMARKER	0	12
BOOK LABELS	12.01	25
BOOK COVER	25.01	56
FREE SHIPPING	56.01	999.99

19. Based on the contents of the PROMOTION table, which of the following will correctly change the value assigned to the MAXRETAIL column for Free Shipping to 75.00?

1. INSERT INTO promotion (maxretail)
VALUES (75)
WHERE gift = 'FREE SHIPPING';

2. UPDATE promotion (maxretail)
SET = 75
WHERE gift = 'FREE SHIPPING';

3. UPDATE promotion
SET maxretail = 75
WHERE gift = 'FREE SHIPPING';

4. none of the above

Contents of the PUBLISHER table

Oracle SQL*Plus			
File Edit Search Options Help			
PUBID	NAME	CONTACT	PHONE
1	PRINTING IS US	TOMMIE SEYMOUR	800-714-8321
2	PUBLISH OUR WAY	JANE TOMLIN	810-410-0010
3	AMERICAN PUBLISHING	DAVID DAVIDSON	800-555-1211
4	READING MATERIALS INC.	RENEE SMITH	800-555-9743
5	REED-N-RITE	SEBASTIAN JONES	800-555-8284

20. Which of the following commands will delete only publisher 4 from the PUBLISHER table?
1. DELETE FROM publisher;
 2. DELETE pubid = 4 FROM publisher;
 3. DELETE FROM publisher WHERE pubid = 4;
 4. DROP FROM publisher WHERE pubid = 4;
21. Which of the following statements about COMMIT and ROLLBACK commands is incorrect?
1. All DML commands (INSERT, UPDATE, DELETE) are explicitly committed and cannot be rolled back.
 2. All DDL commands (CREATE, TRUNCATE, ALTER TABLE) are explicitly committed and cannot be rolled back.
 3. A ROLLBACK command will reverse all DDL operations performed since the last COMMIT was performed.
 4. all of the above

Structure of the CUSTOMERS table

Oracle SQL*Plus		
File Edit Search Options Help		
Name	Null?	Type
CUSTOMER#	NOT NULL	NUMBER(4)
LASTNAME		VARCHAR2(10)
FIRSTNAME		VARCHAR2(10)
ADDRESS		VARCHAR2(20)
CITY		VARCHAR2(12)
STATE		VARCHAR2(2)
ZIP		VARCHAR2(5)
REFERRED		NUMBER(4)

22. Which of the following commands is used to establish a user account?
1. CREATE USER *username* IDENTIFIED BY *password*;
 2. CREATE USERNAME *username* IDENTITY *password*;
 3. CREATE USER *username* PASSWORD *password*;

4. CREATE NEW USER *username* IDENTIFIED BY *password*;
23. Which command will establish a new role?
1. CREATE NEW ROLE *rolename*;
 2. CREATE ROLE *rolename*;
 3. CREATE ROLE *rolename* FOR *username*;
 4. CREATE ROLE *rolename* WITH *privilege*;
24. The ____ command is used to revoke a role.
1. DROP *rolename* FROM *username*;
 2. ALTER *rolename* REVOKE *username*;
 3. REVOKE *rolename* FROM *username*;
 4. DROP *rolename* REVOKE FROM *username*;
25. Which of the following refers to the process of ensuring that individuals trying to access the system are who they say they are, thus preventing them from illegally accessing data?
1. authorization
 2. individualization
 3. authentication
 4. accreditation

Contents of BOOKS table

ISBN	TITLE	PUBDATE	PUBID	COST	RETAIL
1059831198	BODYBUILD IN 10 MINUTES A DAY	21-JAN-01	4	18.75	30.95
0401140733	REVENGE OF MICKEY	14-DEC-01	1	14.2	22
4981341710	BUILDING A CAR WITH TOOTHPICKS	18-MAR-02	2	37.8	59.95
8843172113	DATABASE IMPLEMENTATION	04-JUN-99	3	31.4	55.95
3437212490	COOKING WITH MUSHROOMS	28-FEB-00	4	12.5	19.95
3957136468	HOLY GRAIL OF ORACLE	31-DEC-01	3	47.25	75.95
1915762492	HANDCRANKED COMPUTERS	21-JAN-01	3	21.8	25
9959789321	E-BUSINESS THE EASY WAY	01-MAR-02	2	37.9	54.5
2491748320	PAINLESS CHILD-REARING	17-JUL-00	5	48	89.95
0299282519	THE WOK WAY TO COOK	11-SEP-00	4	19	28.75
8117949391	BIG BEAR AND LITTLE DOVE	08-NOV-01	5	5.32	8.95
0132149871	HOW TO GET FASTER PIZZA	11-NOV-02	4	17.85	29.95
9247381001	HOW TO MANAGE THE MANAGER	09-MAY-99	1	15.4	31.95
2147428890	SHORTEST POEMS	01-MAY-01	5	21.85	39.95

26. Based upon the contents of the BOOKS table in the accompanying figure, which of the following SQL statements will retrieve all books published by the publisher assigned Pubid 1?
1. SELECT * FROM books WHERE pubid LIKE "1";
 2. SELECT * FROM books WHERE pubid > 1;
 3. SELECT * FROM books WHERE pubid = 1;
 4. both 1 and 2
27. A subquery must include a(n) ____ clause.

1. SELECT
 2. both 1 and 3
 3. WHERE
 4. FROM
28. Based upon the contents of the BOOKS table in the accompanying figure, which of the following queries will return all books that cost at least \$25.00?
1. SELECT * FROM books
WHERE cost >= 25.00;
 2. SELECT * FROM books
WHERE cost > \$25.00;
 3. SELECT * FROM books
WHERE cost >= \$25.00;
 4. none of the above
29. When the WHERE clause contains multiple types of operators, which of the following is resolved last?
1. arithmetic operations
 2. logical operators
 3. comparison operators
 4. search patterns
30. Which of the following operators can be used to combine search conditions?
1. IS NOT NULL
 2. =
 3. AND
 4. none of the above
31. Which of the following search patterns would find dates occurring only in the year 2003?
1. %03%
 2. *03
 3. %03
 4. _03%
32. A complete query nested inside another query is called a(n) _____
1. inner view
 2. subquery
 3. child view
 4. all of the above

Structure of the ORDERS table

Oracle SQL*Plus		
File Edit Search Options Help		
Name	Null?	Type
ORDER#	NOT NULL	NUMBER(4)
CUSTOMER#		NUMBER(4)
ORDERDATE		DATE
SHIPDATE		DATE
SHIPSTREET		VARCHAR2(18)
SHIPCITY		VARCHAR2(15)
SHIPSTATE		VARCHAR2(2)
SHIPZIP		VARCHAR2(5)

Structure of the CUSTOMERS table

Oracle SQL*Plus		
File Edit Search Options Help		
Name	Null?	Type
CUSTOMER#	NOT NULL	NUMBER(4)
LASTNAME		VARCHAR2(10)
FIRSTNAME		VARCHAR2(10)
ADDRESS		VARCHAR2(20)
CITY		VARCHAR2(12)
STATE		VARCHAR2(2)
ZIP		VARCHAR2(5)
REFERRED		NUMBER(4)

33. Which of the following SQL statements will display all customers who have not recently placed an order?

1. SELECT customer# FROM customers
UNION
SELECT customer# FROM orders;
2. SELECT customer# FROM customers
MINUS
SELECT customer# FROM orders;
3. SELECT customer# FROM orders
INTERSECT
SELECT customer# FROM customers;
4. SELECT customer# FROM orders
MINUS
SELECT customer# FROM customers;

34. What is the maximum number of columns or character strings that can be combined through a single CONCAT function?

1. two
2. three
3. four
4. eight

35. Which of the following functions will round the numeric data to no decimal places?
1. ROUND(34.21, 0)
 2. ROUND(34.21, -1)
 3. ROUND(34.21, NONE)
 4. ROUND(34.21, 1)
36. Which of the following functions can be used to determine the date one month after a specified date?
1. ADD_MONTHS
 2. ADD_MONTH
 3. ONE_MONTH
 4. NEXT_MONTH
37. Which of the following functions can be used to determine the next occurrence of a specific day of the week after a given date?
1. NEXT_DAY
 2. DATE_NEXT
 3. NEXT_DATE
 4. NEXT_DDD
38. Which of the following is not considered a group function?
1. MIN
 2. TRUNC
 3. COUNT
 4. SUM
39. The SUM function can only be used with _____ data.
1. date
 2. character
 3. numeric
 4. alphanumeric
40. The _____ function calculates the average of the numeric values in a specified column.
1. AVG
 2. AVERAGE
 3. MEAN
 4. AG
41. Which of the following queries will display data from both the ORDERS and CUSTOMERS tables?
1. SELECT * FROM orders, customers;
 2. SELECT lastname, firstname, order# FROM orders NATURAL JOIN customers;

3. SELECT lastname, firstname, order#
FROM orders, customers
WHERE orders.customer# = customers.customer#;
4. all of the above
42. Which of the following describes a type of view that is based on a subquery that retrieves or derives data from one or more tables, and may also contain functions or grouped data?
1. simple view
 2. inline view
 3. complex view
 4. "TOP-N" analysis
43. Based upon the contents of the BOOKS table in the accompanying figure, which of the following queries will retrieve all books published in 2001?
1. SELECT * FROM books
WHERE pubdate BETWEEN '01-JAN-01' AND '31-DEC-01';
 2. Both 1 and 3
 3. SELECT * FROM books
WHERE pubdate LIKE '%01';
 4. SELECT * FROM books
WHERE pubdate < '01-JAN-01' AND pubdate > '31-DEC-01';
44. Which of the following statements about views is incorrect?
1. Views are database objects that actually store data.
 2. Views restrict users' access to sensitive data.
 3. Views assist users who do not have the training to issue complex SQL inquiries.
 4. A view can be referenced in a SELECT...FROM statement, just like any table.
45. Which type of view is created by the following command?
- ```
CREATE VIEW OR REPLACE outstanding
AS SELECT customer#, order#, orderdate, shipdate
FROM orders
WHERE shipdate IS NULL;
```
1. complex
  2. simple
  3. inline
  4. none of the above