Guide to Oracle 10g 5th Edition Morrison Test Bank

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Chapter 2: Creating and Modifying Database Tables

TRUE/FALSE

1.	The SQL command to create a database table is an example of DML.				
	ANS: F	PTS:	1	REF:	42
2.	A user schema conta	ins all c	latabase objects	s create	d by a user.
	ANS: T	PTS:	1	REF:	43
3.	According to the Ora	icle Nai	ning Standard,	'-' (hyj	ohen) is a legal character.
	ANS: F	PTS:	1	REF:	44
4.	To create a table it is	only no	ecessary to spec	cify col	umn names.
	ANS: F	PTS:	1	REF:	44
5.	The Oracle DBMS st	tores co	lumns of all da	ta types	s in the same amount of space.
	ANS: F	PTS:	1	REF:	44
6.	The VARCHAR2 da	ta type	can store up to	4,000 c	characters.
	ANS: T	PTS:	1	REF:	45
7.	Using the CHAR dat the column.	a type o	causes a columr	n value	to be padded to the maximum declared size of
	ANS: T	PTS:	1	REF:	46
8.	The CHAR data type	es stores	s up to 4,000 ch	aracter	S.
	ANS: F	PTS:	1	REF:	45
9.	Given the column de the name column, on				user attempted to store the value "Jonathan" in be stored.
	ANS: F	PTS:	1	REF:	46
10.	The CHAR and VAR	RCHAR	2 data types sto	ore Uni	code character data.
	ANS: F	PTS:	1	REF:	46
11.	When declaring a NU right of the decimal p		R data type, sca	le is the	total number of digits both to the left and to the
	ANS: F	PTS:	1	REF:	47
12.	The following declar	ation re	presents a float	ting-poi	int number: my_number NUMBER.

	ANS: T	PTS:	1	REF:	48
13.	The following declar	ration rep	presents an inte	eger: m	y_int number(4, 2).
	ANS: F	PTS:	1	REF:	47
14.	A fixed-point number	er contair	ns a specific nu	umber o	of decimal places.
	ANS: T	PTS:	1	REF:	48
15.	If a user only specifi default to the current		ne when settin	g a valı	ue for a DATE column, the date portion will
	ANS: F	PTS:	1	REF:	49
16.	A TIMESTAMP dat specified.	a type is	the same as a	DATE	data type, except that time zone can be
	ANS: F	PTS:	1	REF:	49
17.	If a column has a YE positive time interva				L data type, then the value +02-11 specifies a
	ANS: T	PTS:	1	REF:	50
18.	Up to 6 GB of binary	y data ca	n be stored in a	a BLOI	3 column.
	ANS: F	PTS:	1	REF:	51
19.	A primary key is def	ined usir	ng an integrity	constra	uint.
	ANS: T	PTS:	1	REF:	52
20.	A NOT NULL const	raint is a	n example of a	a table o	constraint.
	ANS: F	PTS:	1	REF:	52
21.	If the column S_ID i pk_STUDENT_S_II	-			DENT table, the constraint name would be aming convention.
	ANS: F	PTS:	1	REF:	53
22.	A composite key is c	created u	sing a value co	onstrain	t.
	ANS: F	PTS:	1	REF:	55
23.	To check that the val condition constraint.		ed into a CHA	R colur	nn is either 'M' or 'F', you would use a check
	ANS: T	PTS:	1	REF:	56
24.	To log in to a databa	se using	SQL*Plus you	ı only n	need to provide user name and password.

	ANS: F	PTS:	1	REF:	58
25.	An Oracle error cons				
20.			-		-
	ANS: T	PTS:	1	REF:	62
26.	When you exit from	a SQL*	Plus session, th	ne conn	ection with the database is automatically closed.
	ANS: T	PTS:	1	REF:	64
27.	To view the column LOCATION; at the S		• •	of the L	OCATION table you would type DESCRIBE
	ANS: T	PTS:	1	REF:	66
28.	You can always rena	ime a tal	ole.		
	ANS: T	PTS:	1	REF:	72
29.	You can change a co	lumn da	ata type from V	ARCH	AR2 to NUMBER.
	ANS: F	PTS:	1	REF:	73
30.	It is possible to temp	orarily o	disable constrai	ints in a	n Oracle database.
	ANS: T	PTS:	1	REF:	77-78
MUL	TIPLE CHOICE				
		• • • •		r	
1.	Which of the followi a. create table	ing is no	a part of a DDI	c.	create constraint
	b. drop table	200		d.	select table_name from
	ANS: D	PTS:	1	REF:	42
2.	Which of the following	ng is no	t required whe		•
	a. table sizeb. table name				column names column data types
	ANS: A	PTS:	1	REF:	44
3.	Which of the followi	ng is a l	egal character	in the C	Dracle Naming Standard?
					44
	a. %	0		c. d	
	a. % b. ^	-	1	d.	*
4	a. % b. ^ ANS: C	PTS:		d. REF:	* 44
4.	a. % b. ^ ANS: C	PTS:		d. REF: name ac	*
4.	 a. % b. ^ ANS: C Which of the following a. #COURSE_ID 	PTS:	t a legal table 1	d. REF: name ac c.	* 44 ccording to the Oracle Naming Standard? COURSEID COURSE_ID

5. Which of the following data types is used to store variable length ASCII character data?

		CHAR NCHAR				VARCHAR2 NVARCHAR2
	AN	NS: C	PTS:	1	REF:	45-46
6.	cha	nich of the follow aracters? VARCHAR2(3	C	ares a column r		name" that always contains exactly 30 name VARCHAR2(30)
	b.	CHAR(30) nam	ne		d.	name CHAR(30)
	AN	IS: D	PTS:	1	REF:	46
7.		nich of the follow	ving decla	arations would	be mos	t appropriate for storing a dollar value up to
		price NUMBER price NUMBER				price NUMBER(2) price NUMBER
	AN	IS: A	PTS:	1	REF:	48
8.	Wł	nat is the default	format fo	or a DATE valu	le?	
	a.	MM/DD/YY				MM/DD/YYYY
	b.	DD-MON-YY			d.	MON-DD-YYYY
	AN	VS: B	PTS:	1	REF:	49
9.	If a			nto a DATE col		what will the date portion be set to?
	a. 1-	January 1, 1970				first day of the current month
		first day of the				current date
	AN	IS: C	PTS:	1	REF:	49
10.	int	erval of 2 years a				which of the following indicates a positive time
		2-11				+02-11
		+2-11				11-02
	AN	IS: C	PTS:	1	REF:	50
11.	a.	BLOB	ing LOB	data types doe	c.	core the entire large object in the database? CLOB
		BFILE				NCLOB
	AN	IS: B	PTS:	1	REF:	51
12.	Wł	nich of the follow	ing is no	t created using	an inte	grity constraint?
	a. b.	foreign key primary key				composite key surrogate key
	AN	NS: D	PTS:	1	REF:	53
13.	a.	nich of the follow password database server	-	t required to lo	g in to c. d.	an Oracle database using SQL*Plus? host string user name
			-	1		
	AN	NS: B	PTS:	1	REF:	59

14. Which of the following pieces of information is not displayed by SQL*Plus when an error occurs?

	a. error line number	r	c.	error code
	b. error location		d.	suggested correction
	ANS: D	PTS: 1	REF:	62
15.	Which of the followi DESCRIBE comman		on abou	t a table is not displayed when using the
	a. column name	,	с. d.	not null settings table constraints
	b. column data type	PTS: 1		
	ANS: D	P15: 1	REF:	00
16.	Which of the followia. USERb. ALL	ng data dictionary view	c.	only be seen by users with special privileges? DBA SCHEMA
	ANS: C	PTS: 1	REF:	67
17.	a. all tables in datables.b. all tables in user'	base 's schema s permission to manip		l_tables view which tables are displayed?
	ANS: C	PTS: 1	REF:	68
18.	Which command woa. delete xb. delete x cascade		able x a c. d.	nd all foreign key constraints to x? drop x drop x cascade constraints
	ANS: D	PTS: 1	REF:	73
19.	Which of the followi table?	ng is not automatically	y transfe	erred to a new table name upon renaming a
	a. indexes		с.	views
	b. constraints		d.	privileges
	ANS: C	PTS: 1	REF:	74
20.	 new_column to table a. ALTER TABLE ADD (new_column b. ADD column new c. ADD to TABLE 	e test?	R2(20) t ARCHAI	R2(20))
	ANS: A	PTS: 1	REF:	75
21.	a. it is an unrestrictb. it is only permittec. all values in the or	ed action ed if all values are NU column will be truncat	TLL red to the	e maximum size of a CHAR column? e new size matically set to NULL

ANS: B PTS: 1 REF: 73

22.	Which of the followa. not null constrab. check condition	int		unique constraint default constraint
	ANS: C	PTS: 1	REF:	52
23.	If you need to store a. my_image BLC b. my_image CLC)B	с.	which column declaration would you use? my_image LOB my_image BFILE
	ANS: A	PTS: 1	REF:	52
24.	Which of the follow a. DATE to CHAI b. VARCHAR2 to	R	с.	is permitted? CHAR to NUMBER NUMBER to DATE
	ANS: B	PTS: 1	REF:	75
25.	 a. MODIFY TAB DISABLE fact b. ALTER TABLI DISABLE fact c. MODIFY TAB DISABLE fact d. ALTER TABLI 	LE CONSTRAINT lty_loc_id_fk; E faculty ulty_loc_id_fk; LE faculty lty_loc_id_fk;	Γ	named faculty_loc_id_fk in the faculty table?
	ANS: D	PTS: 1	REF:	78
26.	Almost all relationa a. SQL-88 b. SQL-92 ANS: B	l database vendors PTS: 1	c. d.	ANSI standard. SQL-93 SQL-99 42
27.	commands are	e used to add new d	latabase obie	ects.
	a. DML b. DDL		c.	DCL XML
	ANS: B	PTS: 1	REF:	42
28.	SQL command wor a. Java commands b. terms ANS: D		с.	code words reserved words
•				
29.	The Oracle Naming a. 20 b. 30	Standard states the	с.	ust be from 1 to characters long. 40 unlimited
	ANS: C	PTS: 1	REF:	44

30. The _____ data type stores variable-length character data.

	a. CHAR b. VARCHAR				VARCHAR2 STRING2
	ANS: C	PTS: 1	R	EF:	45
31.	The CHAR data type a. 2,000 b. 4,000	e stores fixe	ed-length chara	c.	data up to a maximum size of characters. 10,000 unlimited
	ANS: A	PTS: 1	R	EF:	46
32.	Oracle10g stores cha a. Unicode b. ASCII	aracter data	in VARCHAR	c.	d CHAR columns using <u>encoding</u> . EBCDIC Java
	ANS: B	PTS: 1	R	EF:	
33.	You use the da perform arithmetic c a. NUMBER b. NUMERIC			c.	res numerical data upon which users may VAR FLOAT
	ANS: A	PTS: 1	R	EF:	
34.	A(n) number w a. int b. char			rrency c.	
	ANS: D	PTS: 1	R	EF:	48
35.	A is a characte a. BFILE b. BLOB ANS: C	r LOB, stor PTS: 1		c.	haracter data in the database. CLOB CHAR 51
36.	constraints def whether values must a. Value b. Integrity ANS: A	-	or not NULL.	c.	ranges that must be inserted into columns and Redundancy Range 52
37.	The constraint whether the value ca a. INDEF b. INPUT			e or u c.	t enter a column for a specific record, or inknown). NULL NOT NULL
	ANS: D	PTS: 1	R	EF:	56
38.	Each SQL*Plus com a. period b. semicolon	mand is ter	rminated with a	c.	 colon exclamation mark
	ANS: B	PTS: 1	R	EF:	59
• •				_	

39. Deleting columns from a table is a(n) _____ action.

	a. restrictedb. unrestricted		c. illegal d. privileged
	ANS: B	PTS: 1	REF: 72
40.	a. CHANGE b. RESET		odify an existing column's data declaration. c. MODIFY d. ALTER
	ANS: D	PTS: 1	REF: 75
СОМ	PLETION		
1.		com	mands are used to insert, update, delete, and view date
	ANS: DML Data Manipulation	Language	
	PTS: 1	REF: 42	
2.	The data objects wi	ithin a user schema are	called database objects or
	ANS: schema obje	ects	
	PTS: 1	REF: 43	
3.		are restrictions of	on the data values that a column can store.
	ANS: Constraints		
	PTS: 1	REF: 43-44	
4.			ne kind of data that the column stores.
	ANS: data type		
	PTS: 1	REF: 44	
5.		lata type stores variable	e-length character data up to a maximum of
	ANS: 4,000 4000		
	PTS: 1	REF: 45	
6.	Fixed-length charac	cter data is stored in the	e data type.
	ANS: CHAR char Char		

ANS: Unicode unicode PTS: 1 REF: 46 _____ is the total number of digits both to the left and to the right of the decimal 8. point. ANS: Precision PTS: 1 REF: 47 9. The ______ specifies the number of digits on the right side of the decimal point. ANS: scale PTS: 1 REF: 47 10. A(n) ______ is a whole number with no digits on the right side of the decimal point. ANS: integer PTS: 1 REF: 47 11. A(n) ______ number contains a variable number of decimal places. ANS: floating-point PTS: 1 **REF: 48** 12. A(n) ______ column stores binary data of up to 4 GB in the database. ANS: BLOB PTS: 1 REF: 51 13. A(n) ______ constraint defines a primary or foreign key. ANS: integrity PTS: 1 REF: 53 14. A(n) ______ constraint restricts the data value with respect to all other values in the table. ANS: table

7. NVARCHAR2 and NCHAR store character data with ______ coding.

PTS: 1 REF: 52

15. A(n) ______ constraint limits the value that can be placed in a specific column, irrespective of values that exist in other table rows.

ANS: column

PTS: 1 REF: 52

16. A(n) ______ enables you to specify that a column value must be a specific value or fall within a range of values.

ANS: check condition

PTS: 1 REF: 56

17. A(n) ______ constraint is a table constraint that specifies that a column must have a unique value for every table row.

ANS: unique

PTS: 1 REF: 58

18. If an Oracle error is generated by the DBMS the error code will begin with

ANS: ORA

PTS: 1 REF: 62

19. To view a list of all tables in your own schema, use the command "select table_name from ".

ANS: user_tables

PTS: 1 REF: 67

20. Adding a new column to a database table is a(n) ______ action.

ANS: unrestricted

PTS: 1 REF: 72

21. Adding a check condition constraint to a table is a(n) ______ action.

ANS: restricted

PTS: 1 REF: 72

22. To delete a table from the database, use the _____ command.

ANS: DROP TABLE

PTS: 1 REF: 72

23. One way to exit SQL*Plus is to type ______ at the SQL prompt. ANS: exit PTS: 1 REF: 64 24. The ______ category of data dictionary views shows both the objects in the current user's schema and the objects that the user has privileges to manipulate. ANS: ALL PTS: 1 REF: 67 25. is a Web-based resource that Oracle Corporation provides free of charge; it is useful for looking up error codes. ANS: OTN Oracle Technology Network REF: 63 PTS: 1

ESSAY

1. Oracle provides a means to disable constraints and then enable them again. Give an example of a situation in which this feature would be useful.

ANS:

Sometimes while you are developing new database applications, it is useful to disable constraints, then re-enable the constraints when the application is finished. For example, suppose one programming team member is working on an application to add records to the FACULTY table, while another team member is performing maintenance operations on the LOCATION table. (Recall that the LOC_ID column in the FACULTY table references the LOC_ID column in the LOCATION table as a foreign key.) If the team member working with the LOCATION table deletes all of the table rows, the team member working with the FACULTY table cannot insert any new rows, because there are no LOC_ID primary key values to reference.

PTS: 1 REF: 77-78

2. You are trying to create a table using SQL*Plus but keep receiving an Oracle error message. You cannot understand the description of the error provided by the interpreter. You have also looked-up the error code at otn.oracle.com, but you still cannot fix your sql. Describe another means you could use to find the problem in your code.

ANS:

When an error occurs that you cannot locate, a last resort debugging technique is to create the table multiple times and add one additional column declaration each time, until you find the declaration causing the error. First paste your nonworking command in a Notepad file and modify it so that it creates the table with only the first column declaration. Copy the modified command, and paste it into SQL*Plus. If SQL*Plus successfully creates the table with the first column, you now know that the error was not in the first column declaration. Delete the table using the DROP TABLE command, which has the following syntax: DROP TABLE tablename;. (You will learn more about the DROP TABLE command later in this chapter.) Then, modify the command in Notepad to create the table using only the first or second column declaration. Drop the table again, and modify the command to create the table using only the first, second, and third column declarations. Continue this process of adding one more column declaration to the CREATE command until you locate the column declaration that is causing the error.

PTS: 1 REF: 64

3. Explain why it is a good idea to use Notepad or another editor to modify your sql commands rather than trying to edit them directly in the SQL*Plus window. Give at least two advantages of using the editor.

ANS:

Many SQL commands are long and complex, and it is easy to make typing errors. A good approach for entering and editing SQL*Plus commands is to type commands into a text editor such as Notepad, then copy your commands, paste the copied commands into SQL*Plus, and execute the commands. If the command has an error, you can switch back to the text editor, edit the command, copy and paste the edited text back into SQL*Plus, and then re-execute the command. When you are creating database tables, it is a good idea to save the text of all of your CREATE TABLE commands in a single Notepad text file so you have a record of the original code. Saving all the commands in one file creates a script, which is a text file that contains several related SQL commands.You can run the script later to re-create the tables if you need to make changes.You can save multiple CREATE TABLE commands in a text file. Just make sure that they are in the proper order so that foreign key references are made after their parent tables are created.

PTS: 1 REF: 60-61

4. Define the two basic categories of SQL commands.

ANS:

Data definition language (DDL) commands—Used to create new database objects (such as user accounts and tables) and modify or delete existing objects. When you execute a DDL command, the command immediately changes the database, so you do not need to save the change explicitly.

Data manipulation language (DML) commands—Used to insert, update, delete, and view database data. When you execute a DML command, you must explicitly save the command to make the new data values visible to other database users.

PTS: 1 REF: 42

5. Explain the Oracle naming standard. Provide example of legal and illegal names.

ANS:

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Table names and column names must follow the Oracle naming standard, which is a series of rules that Oracle Corporation has established for naming all database objects. This Oracle naming standard states that objects must be from one to 30 characters long, can contain letters, numbers, and the special symbols (\$),(_), and (#), and must begin with a character. Examples of legal Oracle10g database object names are STUDENT_TABLE, PRICE\$, or COURSE_ID#. Examples of illegal Oracle10g database object names are STUDENT TABLE (which contains a blank space), STUDENT-TABLE (which contains a hyphen), or #COURSE_ID (which does not begin with a character).

PTS: 1 REF: 44