**Database Design & Applications - 2016 SLC**

1)  A first step in planning a database is:

A) buy a computer

B) determine the database design

C) determine why the database is needed

D) analyze the intended users

2)  When looking online for help with Microsoft Access, it is recommended that you apply a collection of security and stability updates from Microsoft, which is commonly known as a(n):

A) Daemon update

B) Office Validation Tool

C) Service Pack

D) Microsoft Baseline Security Analyzer

3)  Many people who want to put together a “Database” can manage to do it in a single Excel worksheet. Which one of the following scenarios does **not** warrant migration to an Access Database instead of Excel?

A) Users need to be able to run reports from the constantly-changing data.

B) There are twenty users that need to be able to make changes to the data or run reports simultaneously.

C) There are approximately 100,000 records/rows in the Excel file.

D) There is significant duplication of data in many row records of the Excel file.

4)  Access 2007 and later versions feature “Table Templates.” You find an older Access database that does **not** have this feature. What feature was used to quickly create tables before templates?

A) Table auto-formatting

B) Database creation templates

C) Table triggers

D) Table wizard

5)  Today almost every commercial database is based on

A) the relational model.

B) the hierarchical model.

C) the object-oriented model.

D) lists.

6)  Which one of the following is **not** a valid version of Microsoft Access on the PC platform?

A) Access 2013

B) Access 2010

C) Access 2007

D) Access 2004

7)  Duplicate data is referred to as \_\_\_\_ data.

A) redundant

B) storage

C) control

D) accurate

8)  A primary key consists of information in \_\_\_\_\_\_\_\_ column(s)that can uniquely identify a record.

A) zero

B) one or more

C) more than one

D) one

9)  Queries are typically based on

A) relationships

B) reports

C) tables

D) forms

10)  One important aspect of planning for a database is

A) that business rules for the organization be enforced.

B) to make the number of tables as small as possible.

C) to ensure that users of the database have easy access to the data.

D) that null values should never be allowed.

11)  A table is made up of

A) fields and records.

B) queries and fields.

C) forms and fields.

D) records and reports.

12)  When creating an employee payroll database, all of the following fields should be included in the employee table **except**

A) employee name

B) employee hire date

C) employee married date

D) employee address

13)  Which one of the following is **not** a proper way to create an Access database?

A) using a database template

B) using a database wizard

C) importing data from a Microsoft Word table

D) creating an empty database file and building tables from scratch

14)  This validation rule ensures that a field with a numeric data type does **not** exceed a reasonable limit.

A) data

B) date

C) currency

D) page

15)  Databases that store plain characters in English text including numbers, letters, and various punctuation marks store it in this format:

A) ASCII

B) Hexadecimal

C) Binary

D) Unicode

16)  When importing data into any common database, (Access, MySQL, Oracle, etc.) which one of the following formats is most universal for doing so?

A) TXT

B) CFF

C) XLS

D) CSV

17)  An index in a MySQL database helps to:

A) prevent excessive data redundancy

B) provide adequate data redundancy

C) increase the “lookup speed” of select database fields

D) decrease the table sizes within the database

18)  What data type is an autonumber?

A) Decimal

B) Float

C) Long Integer

D) Currency

19)  Which one of the following data types should be used for a primary key in a database to prevent accidental duplication?

A) Blob

B) Integer

C) OLE Object

D) Autonumber

20)  If you forgot to set a primary key or create a unique index for your table, then this can help you clean up the mess.

A) find unmatched

B) simple

C) find duplicates

D) crosstab

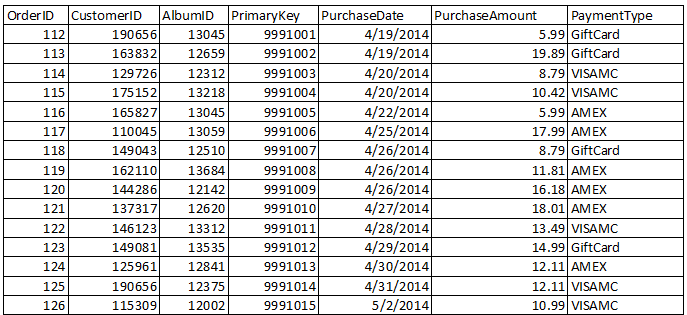
21)  Which one of the following SQL statements would extract data from database tables?

A) SELECT

B) REQUEST

C) GET

D) REPLY

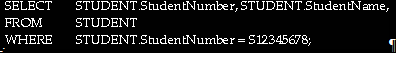
22)    
The Purchases table is sorted by:

A) PurchaseAmount

B) OrderID

C) CustomerID

D) AlbumID

23)  The following statement is an example of   


A) ALE

B) C++

C) QBE

D) SQL

24)  The asterisk (\*) in a SQL statement means

A) some

B) many

C) none

D) all

25)  A(n) \_\_\_\_\_\_ join is the default join and selects only those records from both tables that have a matching value in the fields that are joined.

A) Inner

B) Union

C) Self

D) Outer

26)  Given a condition: WHERE Lname = ‘Jones’ AND ZIP = 43301  
If some ZIP values are equal to 43301, then:

A) only the first indexed record in the table is returned

B) some records for ‘Jones’ will definitely be returned

C) some records for ‘Jones’ may be returned

D) no records for ‘Jones’ will be returned

27)  In SQL, the \_\_\_\_\_\_\_\_\_ keyword will allow you to select records based on partial values.

A) FOR

B) WITH

C) LIKE

D) PART

28)  The \_\_\_\_\_\_\_\_\_ built-in function in SQL allows you to total the values in a numeric field.

A) TADD( )

B) ADD( )

C) SUM( )

D) TOTAL( )

29)  Which one of the following WHERE clauses would show all last names that start with the letter “S”?

A) WHERE LastName =’&S&’

B) WHERE LastName LIKE%S%

C) WHERE LastName.Substr(1) == “S”

D) WHERE LastName.Substr.Char(0)==”S”

30)  A database contains state names and abbreviations in the same field. To find all state abbreviations that begin with the letter “T” in a Microsoft Access database query, which character should be used as the wildcard character?

A) T%

B) T\*

C) T?

D) T#

31)  Displaying only a select few records can be accomplished by adding criteria to which one of the following:

A) Template

B) Query

C) Table

D) Form

32)  Which type of join allows unmatched rows to appear in the result of a join operation?

A) OUTER JOIN

B) OPEN JOIN

C) INNER JOIN

D) ODD JOIN

33)  The ? wildcard character in the search field ma? would find

A) man and map and mat and mad

B) mat and mad, but not man and map

C) man and map, but not mat and mad

D) map and mat, but not man and mad

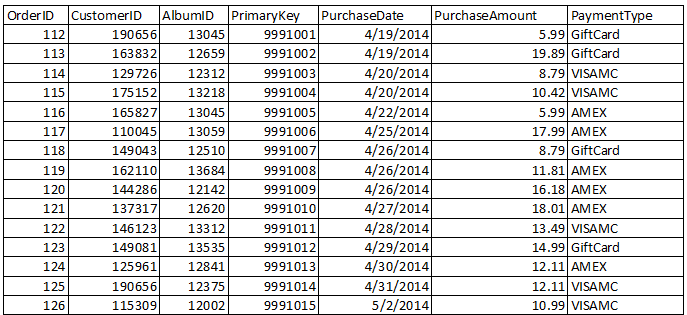
34)  Which one of the following is **not** a benefit of using the APPEND query?

A) user can review the selection before data is copied

B) user can append multiple records in a single pass

C) user can use the message bar to add helpful tips for database end users

D) user can use criteria to refine a data selection

35)    
In Microsoft Access, which is the proper query syntax to join the “OrderID” and “PrimaryKey” columns together?

A) =COMB([OrderID],[PrimaryKey])

B) =[OrderID] & " " & [PrimaryKey]

C) =("OrderID")+(“PrimaryKey");

D) =&Order%20ID&%20&Primary%20Key

36)  When the Employee ID from the employee table is changed to a new ID number, all of the related tables are updated to reflect the new Employee ID. This is an example of

A) cascade delete

B) cascade delegation

C) cascade update

D) delete integrity

37)  You create a parameter by enclosing a value in a criterion like which one of the following examples?

A) < value >

B) [value]

C) 'value'

D) {value}

38)  A “top value” query would help to answer which one of the following questions?

A) Which albums have multiple songs associated with them?

B) Which albums of a record label generated the most sales this year?

C) Which album in a database is accessed at least five times every minute through the web browser?

D) Which albums do we sell that have a price value of between $5,000 and $10,000?

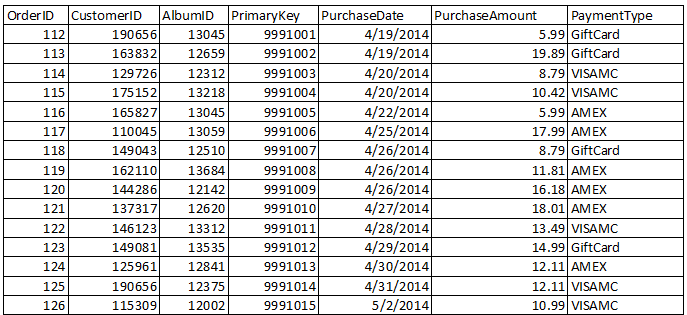
39)  I have a table of salesmen; each sale made is recorded in a separate record. When designing a query, which of the following will technique will allow me to view the average sales for each salesman?

A) grouping

B) sorting

C) multiplying

D) sub-compacting

40) 

Which one of the following albums is most popular according to the Purchases table?

A) 12612

B) 12396

C) 13045

D) 12846

41)  With the \_\_\_\_\_ JOIN notation, the query author uses the JOIN keyword to specify the table to join, and the ON keyword to specify the predicates for the JOIN.

A) explicit

B) canonical

C) natural

D) default

42)  What is the term for a field in a table that points to the primary key of another table?

A) composite key

B) foreign key

C) surrogate key

D) joined key

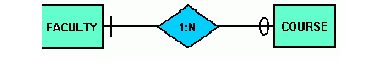
43)  The REFERENCES clause identifies the \_\_\_\_\_ table in a relationship and defines the necessary constraints.

A) top

B) parent

C) tiered

D) child

44)    
Analysis of the diagram above would indicate that

A) a faculty member might not teach a course.

B) all faculty members teach many courses.

C) no faculty member teaches just one course.

D) a course doesn’t need an assigned faculty member.

45)  A \_\_\_\_\_ is necessary when creating relationships between databases.

A) query

B) report

C) table

D) primary key

46)  A rule that requires that the values in a foreign key must have a matching value in the primary key to which the foreign key corresponds, is called:

A) a functional dependency

B) a key matching constraint

C) a referential integrity constraint

D) normalization

47)  For a field that has the data type of Text, the maximum number of characters allowed in the field is:

A) 255

B) 512

C) 155

D) 312

48)  Which one of the following is **not** a valid view when working with Microsoft Access tables?

A) Macro view

B) Design view

C) Datasheet view

D) PivotTable view

49)  When the following SQL statement is executed, which value is the primary key?http://media.techfluency.org/live/17/media/75835.png

A) New York

B) 17

C) 1143 5th Ave

D) Hanks

50)  Some DBMS require text to be enclosed in

A) commas

B) brackets

C) parenthesis

D) quotation marks

51)  A new record is added to an “employees” table. As a result, new entries are automatically populated into tables “Retirement”, “Taxes” and “Security.” Which one of the following is responsible for the additional entries?

A) Table Mutation

B) Data Integrity Daemon

C) Database Trigger

D) Schema Notification Process

52)  Which one of the following keyboard shortcuts will add a new record in Microsoft Access?

A) Ctrl R

B) Ctrl +

C) Ctrl N

D) Ctrl M

53)  A \_\_\_\_ is what Access displays in a field before a user begins adding a record.

A) Validation rule

B) Primary index

C) Default value

D) Required field

54)  Enforcing referential integrity prevents which one of the following in the database?

A) Orphaned records

B) NULL field values

C) Cascade deletions

D) Incorrect RAM pointers

55)  Which one of the following best describes a “lookup field”?

A) search box that is connected directly to the data tables to aid in faster lookups

B) search box that is presented to the user to access query data

C) lookup field serves the same purpose as a primary index on a database field

D) last name is displayed in the database page instead of a primary key like Customer Number

56)  A one-to-many relationship is implemented by including the primary of the “one” table as a(n) \_\_\_\_ key in the “many” table.

A) alternate

B) primary

C) foreign

D) secondary

57)  Most students need to complete several courses in order to graduate. Likewise, most courses are taken by many students. This indicates

A) there is a many-to-many relationship between the two.

B) there is a one-to-many relationship between the two.

C) there is a one-to-one relationship between the two.

D) there is a complex multiple relationship between the two.

58)  Identify the relationship for a customer placing an order:

A) one to many with customers being the one side of the relationship

B) one to one

C) many to many

D) one to many with orders being the one side of the relationship

59)  The requirement for values in a foreign key to have matching values in the related primary key is called

A) normalization.

B) a key matching constraint.

C) a functional dependency.

D) a referential integrity constraint.

60)  If you cascade the update you allow the change, but make the corresponding change to the \_\_\_\_ on all related records.

A) Foreign key

B) Headers and footers

C) Referential key

D) Index key

61)  You can control how groups are kept together in a report by creating a:

A) non-breaking group

B) page break

C) whole group link

D) continuous page marker

62)  When you add a field to a report, the field \_\_\_\_ and text box are inserted as a unit.

A) label

B) timer

C) tag

D) title

63)  \_\_\_\_\_ files can be created as a general purpose format to transfer data from a database.

A) CSV

B) XLSX

C) DOCX

D) DOC

64)  Reports are typically based on

A) relationships

B) queries

C) forms

D) macros

65)  All of the following can be added to a report **except**

A) reporting printing date

B) chart

C) PowerPoint presentation

D) company logo

66)  An alphabetical sort from A to Z in any database system is a:

A) Ascending Sort

B) Bubble Sort

C) Descending Sort

D) Alphanumeric Sort

67)  Reports often contain \_\_\_\_\_\_\_\_, which visually depict the numerical data.

A) column headings

B) footnotes

C) graphs

D) banded data

68)  Access reports can be viewed in which three views?

A) Design, Layout, and Control

B) Design, Layout, and Print Preview

C) Detail, Layout, and Control.

D) Detail, Design, and Print Previewdc.

69)  Snapshot viewer allows

A) reports to be viewed outside of an Access database

B) reports to be imported

C) queries to be included in the reports

D) tables to be included in the reports

70)  \_\_\_\_ is similar to Report view in that it shows the report on the screen, but it also allows you to make changes to the report.

A) Design view

B) Layout view

C) Table view

D) Board view

71)  Using the format painter in a report allows you to

A) add fields to a report

B) copy the format of one field to another

C) modify table properties for a field

D) copy only the bold format of one field to another

72)  Which one of the following situations is **not** appropriate for a group header?

A) report sorted by a PRIMARY KEY field, with headers showing values of the primary keys

B) report sorted by a PHONE NUMBER field, with headers showing the area codes present on the page

C) report sorted by a SOCIAL SECURITY field, with headers showing the range for the page

D) report sorted by a ZIP CODE field, with headers showing the first and ending values for the page

73)  In a report, the DisplayWhen property allows you to specify when you want the header/ footer to be displayed. Which one of these is **not** an option for DisplayWhen?

A) Print Only

B) Screen Only

C) Design Only

D) Always

74)  The section of a report that displays data at the top of the first printed page of a report is called the \_\_\_\_ section.

A) Page Header

B) Group Header

C) Detail

D) Report Header

75)  Including an image once on the cover page of a report, you would include the image in which of the following sections

A) detail

B) page footer

C) report header

D) page header

76)  Which of the following sections prints each record in a table or query.

A) page header

B) report footer

C) record

D) detail

77)  \_\_\_ is the process of creating collections of records that share some common characteristic.

A) Joining

B) Sorting

C) Grouping

D) Nesting

78)  Which one of the following database report features allows you to specify, “In my report, I want the name of any salesperson that generates more than $750 in sales to be printed in light green letters, italic type, and underlined?”

A) data integrity enforcement

B) conditional formatting

C) query-based formatting

D) table relationships

79)  You have a database table full of music albums and their prices. Each album has a genre, and you would like to print the report by genre. In the report wizard, you should enable:

A) Sorting

B) Grouping

C) Filtering

D) Switchboards

80)  Which one of the following is valid syntax for adding a calculated value called “UnitsShipped” to a report?

A) =[UnitsShipped] % ADD

B) =Add[[+UnitsShipped+]]

C) =Sum([UnitsShipped])

D) =Add(“UnitsShipped”)

81)  Which of the following is **true** about a relation?

A) A relation may have duplicate column names.

B) All entries in any column must be of the same kind.

C) A relation may have duplicate rows.

D) The order of columns in a relation must go from largest to smallest.

82)  Preventing multiple applications from obtaining copies of the same record when the record is about to change is called \_\_\_\_\_\_\_\_.

A) serialized reads

B) lost updates

C) concurrent processing

D) resource locking

83)  In a form, the triangle pointing right navigation button:

A) moves to the last record

B) moves to the next record

C) moves to the first record

D) moves to the previous record

84)  When choosing fields for a form, which button will choose all available fields?

A) >>

B) >

C) <<

D) <

85)  A \_\_\_ is the most efficient way to input data.

A) hyperlink

B) form

C) table

D) report

86)  In Joe's database, there is a lot of repeated data. Joe has a list of students and their teachers. The problem is that some students have the same teacher more than once. What is the solution?

A) Delete the multiple teacher listings.

B) Create a separate table for the teacher's information and build a relationship.

C) Use 'duplicate' in the fields that are repeated.

D) There isn't a solution.

87)  What is shown at the top of a form?

A) design sections

B) form footer

C) form header

D) relay points

88)  The quickest way to create a form for any table or query is to use a(n):

A) formlet

B) form wizard

C) forminator

D) autoform

89)  A \_\_\_\_\_ is a database object that extracts information from a table or from other queries.

A) query

B) SELECT

C) form

D) report

90)  You can format your form or report so that alternating data rows have a different background color. This is known as \_\_\_\_\_ striping.

A) white

B) back

C) zebra

D) color

91)  To specify a different color for every other row globally, go to Access Options under \_\_\_\_\_\_, Alternate Background Color.

A) external data

B) create

C) datasheet

D) database tools

92)  Access 2007 can convert graphics into much smaller \_\_\_\_\_ formats to significantly reduce the size of your databases.

A) PSD

B) BMP

C) PNG

D) EPS

93)  Access forms are much like paper forms: you can use them to enter, edit, or display \_\_\_\_\_\_.

A) reports

B) images

C) data

D) queries

94)  Subforms are effective when you want to show data from tables or queries with a \_\_\_\_\_\_\_\_\_\_ relationship.

A) many to many

B) one to one

C) one to all

D) one to many

95)  When one data item can be linked to 0, 1 or many other items, you are dealing with a \_\_\_\_\_\_\_ relationship.

A) many to many

B) one to one

C) one to many

D) one to none

96)  Which one of the following forms accepts user input and carries out a specific action based on the value of the input?

A) data entry form

B) relationship form

C) custom dialog box

D) switchboard

97)  Forms can do all of the following **except:**

A) duplicate records

B) delete records

C) add records

D) print records

98)  The newest version of Access allows you to group objects like textboxes, combo boxes, and command buttons in a single container. A form with multiple containers is known as:

A) Multiplier form

B) Unbound form

C) Tabbed form

D) Split form

99)  In the form wizard of Microsoft Access, the overall colors, fonts, and graphics applied to the form are called a:

A) Style

B) Theme

C) Template

D) Design

100)  Which one of the following is a form layout available in the form creation wizard?

A) Justified

B) Circular

C) Block centered

D) Regular

2016 SLC Database Design & Applications Key

|  |  |
| --- | --- |
| 1) | C |
| 2) | C |
| 3) | C |
| 4) | D |
| 5) | A |
| 6) | D |
| 7) | A |
| 8) | B |
| 9) | C |
| 10) | A |
| 11) | A |
| 12) | C |
| 13) | C |
| 14) | A |
| 15) | A |
| 16) | D |
| 17) | C |
| 18) | C |
| 19) | D |
| 20) | C |
| 21) | A |
| 22) | B |
| 23) | D |
| 24) | D |
| 25) | A |
| 26) | C |
| 27) | C |
| 28) | C |
| 29) | B |
| 30) | C |
| 31) | B |
| 32) | A |
| 33) | A |
| 34) | C |
| 35) | B |
| 36) | C |
| 37) | B |
| 38) | B |
| 39) | A |
| 40) | C |
| 41) | A |
| 42) | B |
| 43) | B |
| 44) | A |
| 45) | D |
| 46) | C |
| 47) | A |
| 48) | A |
| 49) | B |
| 50) | D |
| 51) | C |
| 52) | B |
| 53) | C |
| 54) | A |
| 55) | D |
| 56) | C |
| 57) | A |
| 58) | A |
| 59) | D |
| 60) | A |
| 61) | A |
| 62) | A |
| 63) | A |
| 64) | B |
| 65) | C |
| 66) | A |
| 67) | C |
| 68) | B |
| 69) | A |
| 70) | B |
| 71) | B |
| 72) | A |
| 73) | C |
| 74) | D |
| 75) | C |
| 76) | D |
| 77) | C |
| 78) | B |
| 79) | B |
| 80) | C |
| 81) | B |
| 82) | D |
| 83) | B |
| 84) | A |
| 85) | B |
| 86) | B |
| 87) | C |
| 88) | D |
| 89) | A |
| 90) | C |
| 91) | C |
| 92) | C |
| 93) | C |
| 94) | D |
| 95) | C |
| 96) | C |
| 97) | A |
| 98) | C |
| 99) | A |
| 100) | A |