MySQL

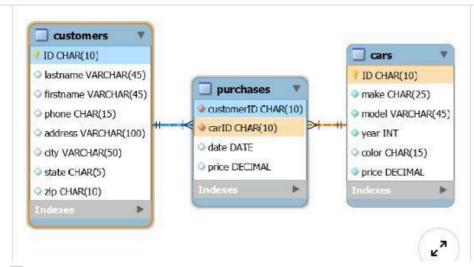
Q1. When you have a subquery inside of the main query, which query is executed f The subquery is never executed. Only the main query is executed.	irst?
They are executed at the same time	
the main query	
✓ the subquery	
Q2. You need to export the entire database, including the database objects, in addi	tion
to the data. Which command-line tool do you use?	
mysqlexport	
mysqladmin	
mysqldump	
mysqld	
Q3. You must ensure the accuracy and reliability of the data in your database. You	assign
some constraints to limit the type of data that can go into a table. What type of	
constraints are you assigning?	
row level	
database level	
column level	
function level	
Q4. Which option of most MySQL command-line programs can be used to get a	
description of the program's different options?	
options	
\square ?	
✓help	
-h	
Q5. MySQL uses environment variables in some of the programs and command-lin operations. Which variable is used by the shell to find MySQL programs?	е
□ DIR	
HOME	
✓ PATH	
■ MYSQL_HOME	
Q6. How can you create a stored procedure in MySQL?	
□ A	
1 CREATE PROCEDURE P () AS	- □
2 BEGIN	ىل
3 END;	
✓ B	
1 CREATE PROCEDURE P ()	С
2 BEGIN	5
3 END	

```
1 CREATE PROCP
                                                                                  ſĠ
2 BEGIN
3 END;
1 CREATE PROC P AS O
                                                                                  ιÖ
2 BEGIN
3 END;
Q7. If you were building a table schema to store student grades as a letter (A, B, C, D, or
F) which column type would be the best choice?
 ENUM
 OTEXT
 VARCHAR
 LONGTEXT
Q8. Management has requested that you build an employee database. You start with the
employee table. What is the correct syntax?
 CREATE TABLE employee (
    employeeID char(10),
    firstName varchar(50),
    lastName varchar(50),
    phone varchar(20),
    address varchar(50),
    PRIMARY KEY ON employeeID
    );
 B
    CREATE TABLE employee (
    employeeID char(10),
    firstName varchar(50),
    lastName varchar(50),
    phone varchar(20),
    address varchar(50),
    PRIMARY KEY employeeID
    );
 CREATE TABLE IF EXISTS employee (
                                                                                  ſĊ
    employeeID char(10),
    firstName varchar(50),
    lastName varchar(50),
    phone varchar(20),
    address varchar(50),
    PRIMARY KEY (employeeID)
    );
    CREATE TABLE IF NOT EXISTS employee (
    employeeID char(10),
```

```
firstName varchar(50),
lastName varchar(50),
phone varchar(20),
address varchar(50),
PRIMARY KEY (employeeID)
);
```

Q9. You are working with the tables as shown in this diagram. You need to generate the list of customers who purchased certain car models. Which SQL clause do you use?

You are working with the tables as shown in this diagram. You need to generate the list of customers who purchased a car last year. Which clause would you use to define the data range?



- LIKE
- ✓ IN
- BETWEEN
- HAVING

Q10. Which query would NOT be used to administer a MySQL server?

- USE db
- SELECT column FROM tbl
- SHOW COLUMNS FROM tbl
- SHOW TABLES

Q11. MySQL server can operate in different SQL modes, depending on the value of the sql_mode system variable. Which mode changes syntax and behavior to conform more closely to standard SQL?

- TRADITIONAL
- ANSI
- MSSQL
- STRICT

Q12. MySQL programs are a set of command-line utilities that are provided with typical MySQL distributions. MySQL is designed to be a database.

- database and programming
- user and administrator
- client and server
- syntax and objects

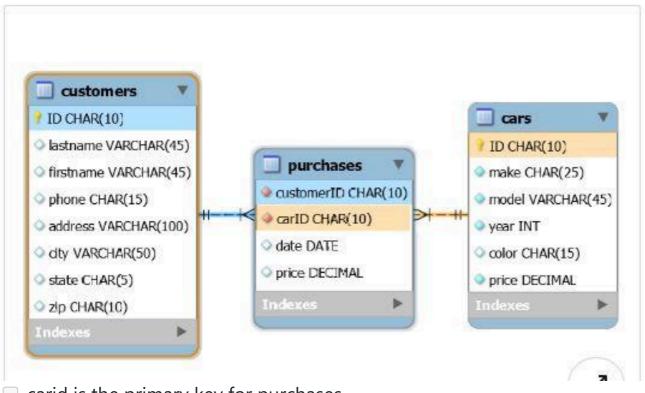
Q13. Which MySQL command shows the structure of a table?
■ INFO table;
SHOW table;
STRUCTURE table;
DESCRIBE table;
Q14. MySQL uses security based on _ for all connections, queries, and other operations that users can attempt to perform. or How are permissions implemented in MySQL?
administrator schema
encrypted algorithms
user settings
✓ access control lists
Reference
Q15. Which MySQL command modifies data records in a table?
✓ UPDATE
■ MODIFY
CHANGE
ALTER
Q16. What is the best type of query for validating the format of an email address in a
MySQL table?
a SQL query using partitions
a SQL query using IS NULL
a SQL query using a regular expression
a SQL query using LTRIM Or RTRIM
Q17. In MySQL, queries are always followed by what character?
☐ line break
colon
✓ semicolon
period
Q18. How can you remove a record using MySQL?
DELETE FROM
DELETE FROM
REMOVE
REMOVE FROM Q19. Which choice is NOT a statement you would use to filter data?
GROUP BY
□ WHERE
□ LIKE
Q20. What does the following SQL statement return?
SELECT * FROM Employees WHERE EmployeeName LIKE 'a%'
It records in the Employees table where the value in the EmployeeName column
doesn't have an "a".

	It records in the Employees table where the value in the EmployeeName column starts with "a".
	It records in the Employees table where the value in the EmployeeName column has an "a".
	It records in the Employees table where the value in the EmployeeName column ends
	with "a".
Q21.	In SELECT * FROM clients; what does clients represent?
	a SQL query
	a SQL statement
	a database
V	a table
Q22.	. How does MySQL differ from SQL?
	SQL is a standard language for retrieving and manipulating data from structured databases. MySQL is a nonrelational database management system that is used to manage SQL databases.
	SQL is a standard language for retrieving and manipulating data from structured databases. MySQL is a relational database management system that is used to manage
	SQL databases.
	They are not different. MySQL and SQL refer to the same thing.
	My SQL is a language, and SQL is a software application.
Q23.	. If you need to order a table of movies by name, which query will work?
	SELECT * FROM movies GROUP BY name
✓	SELECT * FROM movies ORDER BY name
	SELECT * FROM movies ORDER TABLE by name
	SELECT * FROM movies FILTER BY name
	. A trigger is a database object that is associated with a table, and that activates
	n a particular event occurs for the table. Which three events are these?
	INSERT, UPDATE, DELETE
	CREATE, ALTER, DROP
	OPEN, FETCH, CLOSE
	DECLARE, SET, SELECT
	<u>rence</u>
	. You are working with very large tables in your database. Which SQL clause do you
	to prevent exceedingly large query results?
	UNIQUE
	LIMIT
	DISTINCT
	CONSTRAINT
	. What is the default port for MySQL Server?
	990
	0

☑ 3306
Q27. How can you filter duplicate data while retrieving records from a table?
✓ DISTINCT
■ WHERE
LIMIT
□ AS
Q28. What is the difference between DROP and TRUNCATE?
They both refer to the same operation of deleting the table completely.
They both refer to the same operation of clearing the table, but keeping its definition
intact.
■ TRUNCATE deletes table completely, removing its definition as well. DROP clears the
table but does not delete the definition.
DROP deletes table completely, removing its definition as well. TRUNCATE clears the
table but does not delete the definition.
Q29. How do you select every row in a given table named "inventory"?
SELECT all FROM inventory;
FROM inventory SELECT all;
■ FROM inventory SELECT *;
SELECT * FROM inventory;
Q30. In an efficiently designed relational database, what does every table have?
set of triggers
sequential id field
minimum of three columns
✓ primary key
Q31. MySQL option files provide a way to specify commonly used options so that they
need not be entered on the command line each time you run a program. What is
another name for the option files?
variable settings
configuration files
help files
default settings
Reference
Q32. After installing MySQL, it may be necessary to initialize the _ which may be done
automatically with some MySQL installation methods.
storage engine
user accounts
grant tables
data directory
Q33. You need to export the data in the customers table into a CSV file, with columns beaders in the first row. Which clause do you add to your MySQL command?
headers in the first row. Which clause do you add to your MySQL command? JOIN
■ WITH HEADERS
— WITHTHEADENS

✓ UNION
■ WITH COLUMNS
Sample
Q34. One form of backup, replication, enables you to maintain identical data on multiple
servers, as a _ configuration.
remote-local
parent-child
✓ master-slave
☐ logical-physical
Q35. What is the requirement for using a subquery in the SELECT clause?
the subquery must use an aggregate function.
the subquery must refer to the same table as the main query.
the subquery must return a single value.
the subquery must return at least one value.
Q36. Each time MySQL is upgraded, it is best to execute mysql_upgrade, which looks for
ncompatibilities with the upgraded MySQL server. What does this command do, upon
inding a table with a possible incompatibility?
it performs a table check and, if problems are found, attempts a table repair.
it stops and notifies the server administrator that the upgrade cannot complete until
the incompatibility issue are resolved.
it provides a full report of the table specifications and the incompatibilities to the
server administrator.
it performs a table check and, if problems are found, displays the information for the
server administrator to take action.
Q37. What mysql statement is used to check which accounts have specific privileges?
show grants (displays the privileges and roles that are assigned to a MySQL user
account or role)
show privileges (shows the list of system privileges that the MySQL server supports)
show access
show user permissions
Q38. What cannot have a trigger associated with it?
temporary table
system table
large table
new table
Reference
Q39. later versions of mysql support the native json data type for storing json
documents. What is a drawback of json columns?
inefficient for storing json documents
cannot be indexed directly
documents cannot be validated when stored in json columns
cannot be normalized O40. Which statement is true for the diagram below
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Which statement is true for the diagram below?



- carid is the primary key for purchases
- carid is the foreign key for cars.carid
- customerid is the foreign key for customers.id
- customerid is the primary key for purchases

Q41. Which statement can you use to load data from a file into the table?

- cat file | mysql
- ✓ LOAD DATA INFILE
- LOAD DATA LOCAL INFILE
- extended INSERT statement

Q43. Which is the correct syntax of an extended insert statement?

- insert into cars (make, model, year) values ('Ford', 'Mustang', 2002) ('Mercedes', 'C', 2003)
- insert into cars (make, model, year) values ('Ford', 'Mustang', 2002) values ('Mercedes', 'C', 2003)
- insert into cars (make, model, year) extended ('Ford', 'Mustang', 2002), ('Mercedes', 'C', 2003)
- insert into cars (make, model, year) values ('Ford', 'Mustang', 2002), ('Mercedes', 'C', 2003)

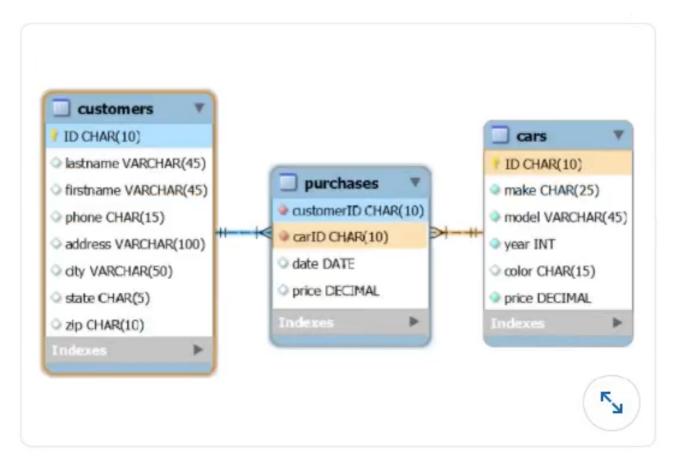
Q44. You need to make an exact copy of a table, with all columns and indexes. How can you get all of the information needed to accomplish this?

- create table
- clone table
- insert into
- show create table

Note that the question is about <i>getting</i> the data and not about the <i>duplicating</i> operation
itself. And actually there is no need to run SHOW CREATE TABLE at all. To duplicate the
table structure you can CREATE TABLE new_table LIKE original_table; .
Q45. you need to make your mysql system secure against attackers. What are
you <i>not</i> supposed to do?
Run MySQL server as a normal user.
☐ Grant PROCESS or SUPER privilege to other users.
Run MySQL server as the unix root user.
Use the compressed protocol.
Q46. You are managing a database with a table called customers. You created a
temporary table also called customers with which you are working for the duration of
your session. You need to re-create the temporary table with different specifications.
Which command do you need to run first?
CREATE TEMPORARY TABLE customers;
DROP TEMP TABLE customers;
DROP TABLE customers;
DROP TEMPORARY TABLE customers;
1. <u>reference</u>
2. <u>reference</u>
Q47. You need to run a complex query with recursive subqueries, but without creating a
stored procedure or a function. Which command or clause do you use?
COLLATE
UNION
FULL JOIN
✓ WITH
This is exactly what <u>WITH clause</u> is designed for
Q48. Which choice is not a processing algorithm for database views?
merge
✓ updatable
temptable
undefined
<u>Reference</u>
Q49. What is the MySQL perror command-line utility used for?
to display your version of MySQL
to display operating system error codes
to display default settings that are in error
to display storage error codes
Note: perror prints a description for a system error code or for a storage engine (table
handler) error code - <u>link</u>
Q50. How can you list all columns for a given table?
SHOW table COLUMNS;
SHOW COLUMNS FROM table;

LIST table COLUMNS;
SELECT COLUMNS FROM table;
Note: DESCRIBE tablename is a shortcut for this command
Q51. How would you list the full set of tables in the currently selected database?
SELECT * FROM DATABASE;
SHOW TABLES;
LIST TABLES;
SELECT ALL TABLES;
Q52. Which choice is not one of the table maintenance statements?
□ CHECK TABLE;
✓ CREATE TABLE;
ANALYZE TABLE;
OPTIMIZE TABLE;
Q53. In which table does MySQL store passwords for user accounts?
mysql.accounts;
mysql.passwords;
mysql.admin;
mysql.user;
Q54. Management has requested that you build an employee database. You need to
include each employee's current position and salary, as well as all prior positions and
salaries with the company. You decide to use a one-to-many structure: an employee
table with the main information such as name and address, and an employment table
with position and salary history. You can use the employeeID field to connect them.
What is employment.employeeID an example of?
primary key;
secondary key;
✓ foreign key;
alternate key;
Q55. In recent versions of MySQL (8.0+), what's the correct syntax to declare a CTE
(Common Table Expression)?
WITH (SELECT id FROM users) as cte, SELECT
WITH (SELECT id FROM users) as cte SELECT
WITH cte as (SELECT id FROM users), SELECT
WITH cte as (SELECT id FROM users) SELECT
Q56. What is one reason to introduce data redundancy into a normalized database
design?
✓ to reduce corruption in data
to reduce storage space
✓ to make the system faster To prove the system faster
■ to prevent data anomalies
Note: "to make the system faster" can also be correct. For example we can calculate some
heavy query in advance and store its result in some column (use it as a cache). So if
"system" means "application which uses mysql" then it's correct too.

Q57. The code snippet below is used to read data from an XML file into a table. Which XML structure is _not_ supported by the statement?	h
LOAD XML LOCAL INFILE 'cars.xml'	ر ا
INTO TABLE cars	لئ
ROWS IDENTIFIED BY ` <car>`;</car>	
\square A	
<car></car>	-
<field name="make"> Lexus </field>	ىل
<field name="model"> IS300 </field>	
<field name="make"> 2016 </field>	
✓ B	
<car name="make"> Dodge </car>	
<car name="model"> Ram </car>	لل
<car name="year"> 2000 </car>	
<pre><car make="Ford" model="Mustang" year="2002"></car></pre>	ф
	_C
Q58. You are loading data into a table. Which command can you use to make sure the all data is inserted and duplicates rows are discarded? INSERT IGNORE INSERT UNIQUE INSERT INTO INSERT DISTINCT	at
Q59. Which statement about the TRUNCATE TABLE statement is true? ☐ It will stop and issue an error when it encounters a row that is referenced by a row i child table. ☐ It always first drops, then re-creates a new table. ☐ It deletes rows one by one on tables with foreign key constraints. ☐ It does not invoke the DELETE triggers associated with the table. Note: both answers are correct - see TRUNCATE TABLE Statement in MySQL manual Q60. You are working with the tables as shown in this diagram. You need to get the number of cars sold per the home state of each customer's residence. How can you accomplish this?	n a



- SELECT state, COUNT(*) FROM customers WHERE ID IN (SELECT customerID FROM purchases) GROUP BY state;
- SELECT state, COUNT(*) FROM customers c LEFT JOIN purchases p ON c.ID =
 p.customerID GROUP BY state;
- SELECT state, COUNT(*) FROM customers c, purchases p WHERE c.ID = p.customerID
 GROUP BY state;
- SELECT state, COUNT(*) FROM customers GROUP BY state;

Explanation: THe difference between 2 and 3 is that LEFT JOIN will return 1 row per customer before grouping. If replaced with RIGHT JOIN it would return the correct info.

Q61. In data migration, there is often a need to delete duplicate rows as part of data cleanup. Which statement works best?

DE	ELI	ΕTI	ΕI	DU	PS.
				_	_

- DELETE DISTINCT
- ✓ DELETE JOIN
- DELETE WITH

Q62. When working with MySQL cursor, what must you also declare?

- DEFAULT value
- RETURN variable
- SOLEXCEPTION routine
- NOT FOUND handler

Q63. Which type of backup includes all the changes made to the data since the last full backup was performed?

- snapshot
- logical
- differential

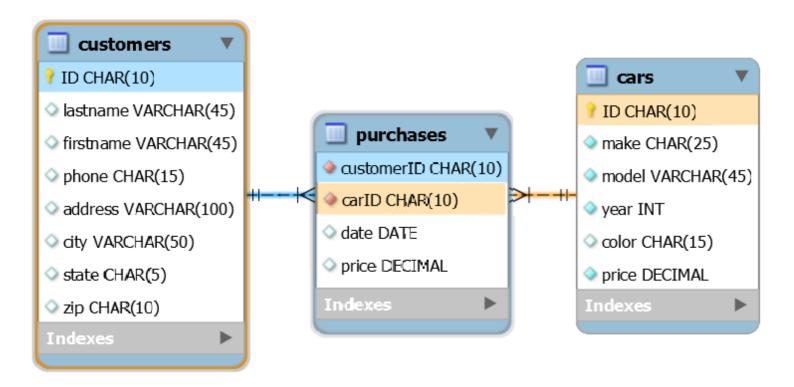
tool do y	ou use for th	ne actual data	import, aft	ter re-creating	g the databa	se?	
myso	ıld						
mysq	_[]						
	pladmin						
_	ldump						
	•	ng data as JSC				•	
•	N); and inser	t rows into th	is table. Wi	nat is the cori	ect syntax to	see the	list of
cities?	CT city FROM	licon data:					
	CT city FROM	n json_data; .name' city F	ROM ison d	a+a•			
	_	city FROM js	_	aca,			
	_	name' city FR	_	ta·			
	_	s valid too bu			sed with auo	tation ma	nrks
	•	se MyISAM in			•		
-	EATE TABLE	•			- , - , - , -		
✓ ENG	INE						
PART	TITION						
STOF	RAGE						
TABL	.ESPACE						
Q67. You	are working	with the tabl	e in this dia	agram. You w	ant to use fu	ll-text se	arch to
find the	customers wl	ho live on a st	treet or a d	rive. What is t	the command	d to do t	hat?
Table nar	ne: custome r	S					
ID	lastname	firstname	phone	address	city	state	zip
A001	Smith	Bob	212- 555- 1212	1001 1st Street	New York	NY	10001
A002	Chang	John	213- 555- 5678	888 Rodeo Drive	Los Angeles	CA	90210
				DIIVE			
A003	Smith	Mary	999- 999- 9999	123 Main Street	Anytown	VA	12345

Q64. You need to restore a MySQL database from a backup file. Which command-line

incremental

ID	lastname	firstname	phone	address	city	state	zip
A005	Lopez	Linda	737- 777- 3333	123 Main Street	Austin	TX	73344
□В		Street' OR 'D	Orive';				_C
_ C		IN ('street,	drive');				G
✓ D		Street' OR ad	ldress MATC	H 'Drive';			G
Q68. Whi	CH(address)	-	-	• -	?		_C
all ta a list all ta all ta all ta alist Q70. Whi INOU	at is the proc bles, columns of entities, th bles and thei of entities, th ich choice is	duct of the da s, data types, i neir relationshi r names, which neir relationshi not a valid mo	ndexes and ip, and cons h are neede ip, constrain	I their relation straints ed to implements, data type	nships ent the logica s, and cardina	alities	
☐ The t☐ Tempgrou☐ The t☐	at is the adva emporary tales porary tables p developme emporary tal	intage of using ole will be dro can be shared ent environme ole will be dro rary table does	pped when among clients. pped as soo	the database ents, which m on as your se	e is restarted. Takes them m ssion disconr	ore usable	e in

Q72. What is the maximum number of columns that can be used by a single table index? 2 4 8 16
Q73. Which command will return a list of triggers in the current database?
DISPLAY TRIGGERS;
SHOW TRIGGERS;
SELECT ALL TRIGGERS;
SELECT * FROM information_schema.triggers;
Q74. Which statement is true about TIMESTAMP and DATETIME data types?
TIMESTAMP values require more bytes for storage than DATETIME values.
TIMESTAMP is stored without timezone, and DATETIME is stored in UTC values.
☑ TIMESTAMP and DATETIME are both stored without time zone.
■ TIMESTAMP is stored in UTC values, and DATETIME is stored in without time zone.
Q75. What is the equivalent of the mysqladmin reload command?
<pre>mysqladmin flush-threads</pre>
<pre>mysqladmin flush-tables</pre>
<pre>mysqladmin flush-privileges</pre>
<pre>mysqladmin flush-all</pre>
Q76. Explain the security aspect of stored procedures
Stored procedures are not secure, because they can be executed from the command
line as the root user
Stored procedures are secure, because the owner of the stored procedure can decide to whom access is granted
Stored procedures are secure, because applications can be given access to stored
procedures and not any underlying tables
 Stored procedures are not secure, because they can execute statements to drop tables
or bulk delete data
Q77. How would you retrieve data on all the customers where no phone number is
stored?
<pre>SELECT * FROM customers WHERE PhoneNumber = NULL;</pre>
SELECT * FROM customers WHERE PhoneNumber IS NOT VALID;
SELECT * FROM customers WHERE PhoneNumber IS NULL;
SELECT * FROM customers WHERE PhoneNumber IS UNKNOWN;
Q78. In the diagram below, the price field is declared as type DECIMAL. What would be a more efficient declaration for this field?



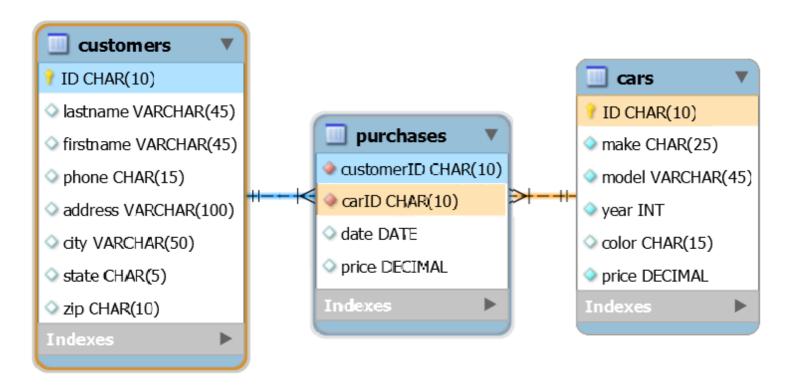
- FLOAT
- ✓ DECIMAL(10,2)
- NUMERIC
- DOUBLE

Q79. Which choice is **not** an available string type for a column?

- ENUM
- SET
- **✓** BIT
- CHAR

Explnation: BIT is not a string type

Q80. This diagram shows what type of relationship between customers and cars?



- one-to-many
- parent-child
- many-to-many
- many-to-one

Q81. A stored routine is a set of SQL statements stored on the server and takes form as either a procedure or a function. Which statement cannot be used inside stored routines?

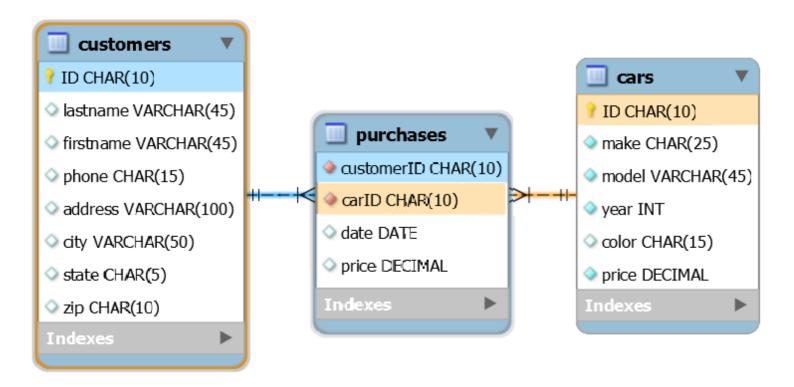
- SELECT
- **USE**
- SET
- DECLARE

Explanation: Both SET and DECLARE are used to create variables. Reference: <u>MySQL STORED PROCEDURE Tutorial With Examples</u>

Q82. When a new student is added to a new database, you want new records to be created in the related tables such as Exam, Score and Attendance. How would you accomplish this?

- trigger
- regular expression
- view
- index

Q83. In the diagram below, the ID fields are declared as type CHAR instead of INT . Which is NOT one of the possible reasons behind that decision?



- The ID field needs to include letters and not just numbers.
- You can have a consistent format across all of the tables that require ID fields.
- The ID field needs to have leading 0s, which the INT data type would truncate.
- ☑ The CHAR(10) data type is more efficient and space-saving.

Q84. Why would you use a common table expression (CTE)?

- To define queries for later reuse for the duration of the current session
- To create temporary tables that can be used to pre-select often-used result sets.
- To calculate a new single value from a result set and return it to the query parser.
- ☑ To break down complex queries and allow reuse within a query.

Explanation: CTEs do not create temporary tables, they only work within a signle query. Reference: 13.2.15 WITH (Common Table Expressions).

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Q85. Which option modifier tells a program not to exit with an error if it does not recognize the option, but instead to issue a warning?

- --verbose
- --skip
- --skip-error
- --loose

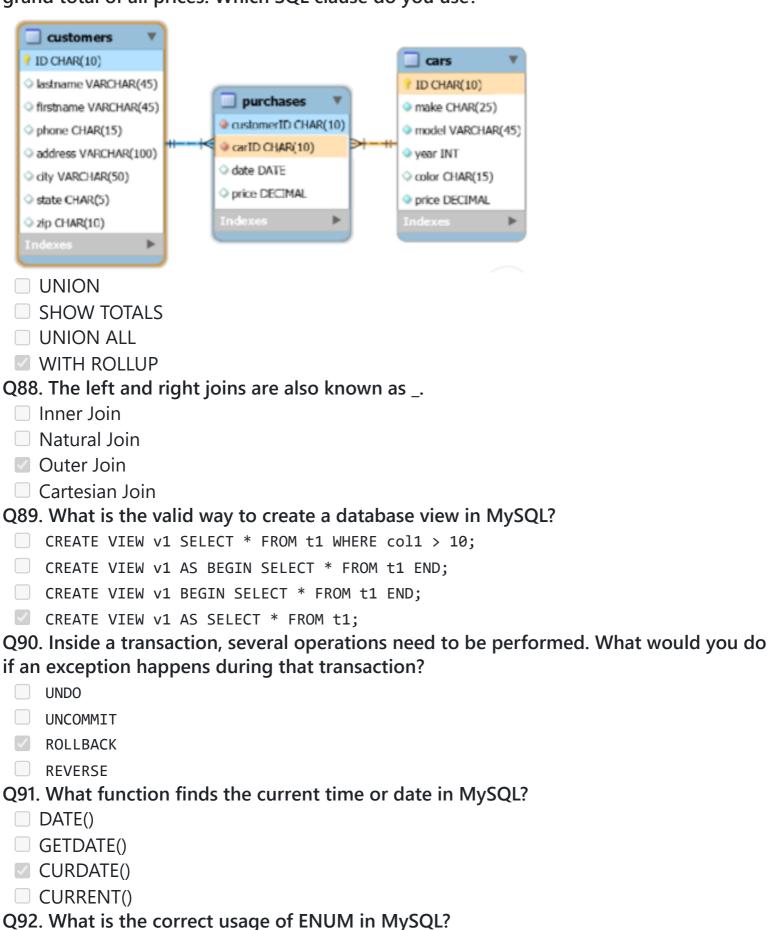
Reference: 4.2.2.4 Program Option Modifiers

Q86. What does this SQL statement return?

SELECT name FROM students WHERE name REGEXP '^to';

- all names starting with "to," such as Tommy or Tony
- all names with "to," such as Roberto and Tommy
- all names without "to," such as Samantha or Kathryn
- ☐ all names ending with "to," such as Roberto

Q87. You are working with the tables as shown in the diagram. You need to generate the list of price totals for each make and model of car, with subtotals for each make, and the grand total of all prices. Which SQL clause do you use?



Create table size (ENUM ('Small', 'Medium', 'Large'));
Create table ENUM (name ('Small', 'Medium', 'Large'));

Create table size (name: ENUM['Small','Medium','Large']);

Create table size (name ENUM('Small','Medium','Large')); Q93. The mysgldump command cannot generate output in . JSON CSV XML TXT Q94. You are working with the tables shown below. You need to generate the list of all cars, whether or not they had been sold. Which statement accomplishes that? customers ID CHAR(10) cars lastname VARCHAR(45) ID CHAR(10) purchases firstname VARCHAR(45) make CHAR(25) customerID CHAR(10) phone CHAR(15) model VARCHAR(45) carID CHAR(10) address VARCHAR(100) year INT date DATE aty VARCHAR(50) color CHAR(15) price DECIMAL state CHAR(5) price DECIMAL zip CHAR(10) Indexes A SELECT cars.*, purchases.date ſĊ FROM cars RIGHT JOIN purchases ON cars.ID = purchases.carID; SELECT cars.*, purchases.date ſĊ FROM cars INNER JOIN purchases ON cars.ID = purchases.carID; SELECT cars.*, purchases.date ιÖ FROM cars JOIN purchases ON cars.ID = purchases.carID; \triangle D SELECT cars.*, purchases.date FROM cars LEFT JOIN purchases ON cars.ID = purchase Q95. Which code snippet from a stored procedure should be rewritten as a CASE

statement?

 \Box A

```
IF var1 THEN SET varA = var1;
  ELSEIF var2 THEN SET varA = var2;
  ELSEIF var3 THEN SET varA = var3;
  ELSE SET varA = var4;
  END IF;
\square B
  IF var1 = var2 THEN SET varA = var1;
                                                                                   ſĠ
  ELSEIF var2 = var3 THEN SET varA = var2;
  ELSEIF var3 = var4 THEN SET varA = var3;
  ELSE SET varA = var4;
  END IF;
IF var1 = 1 THEN SET varA = var1;
                                                                                   ſŪ
  ELSEIF var2 = 2 THEN SET varA = var2;
  ELSEIF var3 = 3 THEN SET varA = var3;
  ELSE SET varA = var4;
  END IF;
IF var1 = 1 THEN SET varA = var1;
                                                                                   ſÒ
  ELSEIF var1 = 2 THEN SET varA = var2;
  ELSEIF var1 = 3 THEN SET varA = var3;
  ELSE SET varA = var4;
  END IF;
```

Q96. Why would you use stored functions?

- for formulas and business rules that you want to apply to columns in an SQL query
- for formulas and business rules that should be applied on a specific trigger event like on inserts
- to automatically modify the data of a table based on a query
- for reusing recurring queries

Q97. What steps do you need to take to normalize the table from this diagram?

Table name: superheroes

name	alias	power1	power2	power3
Superman	Clark Kent	Flight	X-Ray Vision	Super Strength
Wonder Woman	Diana Prince	Force Fields	Reflexes	Telepathy
Spider-man	Peter Parker	Walcrawling	Web-making	Enhanced Senses
Aquaman	Arthur Curry	Underwater Breathing	Enhanced Sight	Stamina

name	alias	power1	power2	power3
Hulk	Bruce Banner	Super Strength	Radiation Immunity	Invulnerability
description Add a col Extend the additional Convert the superhered Q98. A table I How can you UPSERT It CHANGE ALTER Itel UPDATE It	on, as well as a junumn to this table is table to have act powers for each his table to have combinated as a Boolean to the Boolean to the SET endOfLife is an example of the set the Boolean to the SET endOfLife is an example of the set th	ve as a lookup for portion table with superto serve as a record ditional columns "pusuperhero. It is to serve as a record ditional columns "pusuperhero. It is to serve all led "power to the serve all led and of 15 are true where makes are true where the true where	erhero names and pidentifier, and make ower4," "power5," and records in this example and a field makeYear that have been mate eYear < 2019 keYear < 2019 eYear < 2019	power codes. e it the primary key. and so on, to allow cord for each mple. r of type YEAR(4).

Reference

COUNT()

Q100. You are working on UPDATE trigger on the employee tablein this diagram. How can you access the new value for the address inside the trigger?

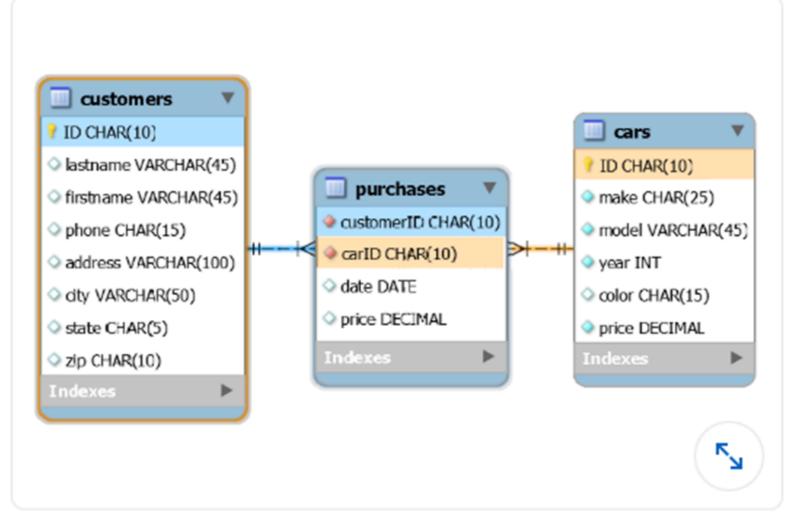




- Use NEW.address
- Use INSERTED.address
- Use DELETED.address
- USE OLD.address

Reference

Q101. You are working with the tables as shown in this diagram. You need to generate the list of customers who purchased certain car models. Which SQL clause do you use?



- UNION ALL
- ✓ UNION
- SHOW TOTALS
- WITH ROLLUP

Q102. How would you make a case-insensitive query in MySQL?

- SELECT * FROM customers WHERE UPPEERCASE(LastName) = 'POTTER';
- SELECT * FROM customers WHERE LOWERCASE(LastName) = 'potter';
- SELECT * FROM customers WHERE UPPER(LastName) = 'POTTER';
- SELECT * FROM customers WHERE UPPER(LastName) = 'Potter';

Q103. "COUNT" keyword belongs to which categories in Mysql?

- Q103. COUNT keyword belongs to which categories in i
 - Aggregate functions
 - Operators
 - Clauses
 - All of the mentioned`

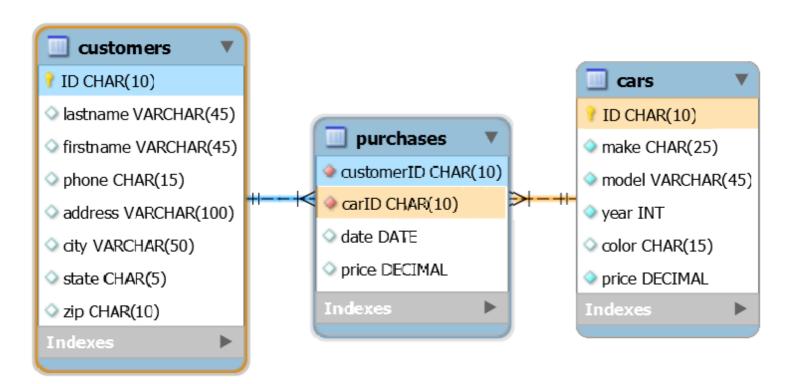
Q104. What is the meaning of "HAVING" clause in Mysql?	
☐ To filter out the column values	
✓ To filter out the row values	
■ To filter out the row and column values	
None of the mentioned	
Q105. Which clause is similar to "HAVING" clause in Mysql?	
□ SELECT	
□ FROM	
✓ WHERE	
None of the mentioned	
Q106. What will be the output of the following MySQL command?	
SELECT emp_id, fname, lname	
FROM employee	لئ
WHERE title='HEAD TELLER' AND start_date>2008-11-23;	
All columns	
Only those columns which are mention with "SELECT" clause	
Columns mention with "SELECT" clause and only those rows which contain 'HEAD	
TELLER' as a "title"	
None of the mentioned	
Q107. Is there any error in the following MySQL statement?	
SELECT e.emp_id, e.fname,e.lname,d.name	ſŌ
FROM employee e INNER JOIN department d	5
<pre>ON e.dept_id=e.dept_id;</pre>	
✓ NO	
□ YES	
DEPEND	
None of the mentioned	
Q108. With MySQL, how do you select all the records from a table named "Persons"	
where the "LastName" is alphabetically between (and including) "Hansen" and	
"Pettersen"?	
SELECT LastName>'Hansen' AND LastName<'Pettersen' FROM Persons	
SELECT * FROM Persons WHERE LastName BETWEEN 'Hansen' AND 'Pettersen'	
<pre>SELECT * FROM Persons WHERE LastName>'Hansen' AND LastName<'Pettersen'</pre>	
□ None of the above.	
Reference	
Q109. Consider the set of relations given below and the SQL query that follows	
Students : (Roll number, Name, Date of birth)	ſĊ
Courses: (Course number, Course name, instructor)	
Grades: (Roll number, Course number, Grade) SELECT DISTINCT Name	
FROM Students, Courses, Grades	
WHERE Students.Roll number = Grades.Roll number	
AND Courses.Instructor =Sriram	

AND Courses.Course_number = Grades.Course_number
AND Grades.Grade = A

(Which of the following sets is computed by the above query?)

- Names of Students who have got an A grade in all courses taught by Sriram
- Names of Students who have got an A grade in all courses
- Names of Students who have got an A grade in at least one of the courses taught by Sriram
- None of the above

Q110. You are working with the tables shown below. You need to make sure that any record added to the purchases table consists of a customerID, which already exists in the customers table, and a carID, which already exists in the cars table. You decide to use a trigger to do the validation. Which one do you use?



- IF EXISTS
- CROSS JOIN
- BEFORE INSERT
- AFTER INSERT]
- IF EXISTS and CROSS JOIN are not valid for a trigger.

Q111. Current versions of MySQL support the full-text search feature on some storage engines, as an alternative to using the LIKE operator and regular expressions. Which statement would you run to enable a full-text index for the column description in the table Car?

- ALTER TABLE car ADD FULL TEXT(description);
- MERGE TABLE car ADD FULL TEXT(description)
- ENABLE FULL TEXT(description) car
- SEARCH FULL TEXT(description) car

Q112. Which statement would you *not* use to filter data?

MySOL assessment
MySQL assessment
Which statement would you not use to filter data?
GROUP_BY
WHERE
LIKE
Something wrong with this question? Give feedback
Q5/15 03:17 Next
 ☑ GROUP_BY ☐ MATCH ☐ WHERE ☐ LIKE Q113. In MySQL, which JOIN type returns all rows from the left table and the matching
rows from the right table, and fills in with NULL values if there is no match on the right side? INNER JOIN LEFT JOIN (or LEFT OUTER JOIN) RIGHT JOIN (or RIGHT OUTER JOIN)
■ FULL JOIN (or FULL OUTER JOIN) Q114. What does SQL stand for in MySQL?
 Structured Query Language Simple Query Language System Query Language
Structured Question Language
Q115. Which MySQL statement is used to select data from a database? Extract select
get

Q116. What is the purpose of the PRIMARY KEY in a MySQL table?
☑ To create a unique index on a table
To define a column as an integer
To define the data type of a column
To specify a foreign key reference
Reference
Q117. Which of the following is a valid SQL query to insert a new row into the users
table?
<pre>INSERT INTO users (name, email) VALUES ('John Doe', 'john.doe@example.com')</pre>
ADD users (name, email) VALUES ('John Doe', 'john.doe@example.com')
CREATE users (name, email) VALUES ('John Doe', 'john.doe@example.com')
UPDATE users (name, email) VALUES ('John Doe', 'john.doe@example.com')
Q118. Which of the following is a valid SQL query to delete the row with the id of 2 from the users table?
DELETE FROM users WHERE id = 2
REMOVE FROM users WHERE id = 2
DROP users WHERE id = 2
TRUNCATE users WHERE id = 2
Q119. MySQL programs are a set of command-line utilities that are provided with typical
MySQL distributions. MySQL is designed to be a database.
database and programming
user and administrator
✓ client and server
syntax and objects
Q120. Which MySQL command shows the structure of a table?
□ INFO table;
SHOW table;
STRUCTURE table;
DESCRIBE table;
Q121. The left and right joins are also known as
□ Inner Join
Natural Join
✓ Outer Join
Cartesian Join Q122. What is the valid way to create a database view in MySQL?
CREATE VIEW v1 SELECT * FROM t1 WHERE col1 > 10;
CREATE VIEW V1 SELECT * FROM t1 END;
CREATE VIEW V1 AS BEGIN SELECT * FROM t1 END;
CREATE VIEW V1 BEGIN SELECT * FROM t1;
Q123. In a database with a "Students" table containing information about students,
which SOL statement is used to retrieve the names of all students who scored higher

than 90 in their exams?

\square A	
SELECT student_name FROM Students WHERE score > 90;	_C
✓ B	
SELECT name FROM Students WHERE score > 90;	O
\sqcap C	
SELECT student_name FROM Students WHERE exam_score > 90;	O
SELECT name FROM Students WHERE exam_score > 90;	ن
Q124 Which SQL command is used to retrieve data from a database? FETCH	
■ SEARCH✓ SELECT	
EXTRACT	
Q125. Which MySQL function would you use to get the current date and time?	
GETDATE()	
CURRENTTIME()	
NOW()	
DATETIME() Q126. In MySQL, which statement is used to add a new column to an existing table?	
MODIFY TABLE	
UPDATE TABLE	
✓ ALTER TABLE	
CHANGE TABLE	
Q127. What is the purpose of the LIMIT clause in a MySQL SELECT statement?	
■ To limit the number of tables that can be joined	
✓ To restrict the number of rows returned by the query	
To limit the number of columns that can be selected	
■ To restrict the query execution time	
Q128. Which MySQL command is used to show all databases on the server?	
LIST DATABASES;	
□ DISPLAY DATABASES;	
SHOW DATABASES;	
SELECT DATABASES;	
Q129. What does the UNSIGNED keyword do when used in a column definition?	
It makes the column accept only positive numbers	
It makes the column accept only whole numbers	
It doubles the maximum value that can be stored in the column	
It makes the column accept only text data	

Q130. Which MySQL function would you use to find the length of a string?
SIZE()
LENGTH()
LEN()
STRLEN()
Q131. What is the purpose of the AUTO_INCREMENT attribute in MySQL?
To automatically update the column value when the row is modified
To automatically decrease the column value by 1 for each new row
To automatically generate a unique identity for new rows
To automatically set the column to the current timestamp
Q132. Which MySQL statement is used to remove a table from a database?
■ REMOVE TABLE
DELETE TABLE
☑ DROP TABLE
■ ERASE TABLE
Q133. What does the LIKE operator do in a WHERE clause?
It compares two values for exact equality
It searches for a specified pattern in a column
It checks if a value is NULL
It performs mathematical comparisons
Q134. Which MySQL function returns the number of rows affected by an INSERT,
UPDATE, or DELETE statement?
AFFECTED_ROWS()
COUNT_CHANGES()
ROW_COUNT()
FOUND_ROWS()
Q135. What is the purpose of the HAVING clause in MySQL?
To join multiple tables
To sort the result set
To specify a search condition for a group or an aggregate
☐ To limit the number of rows returned
Q136. Which MySQL statement is used to grant privileges to a user?
ADD PRIVILEGES
SET PRIVILEGES
✓ GRANT
ALLOW
Q137. What does the IFNULL() function do in MySQL?
It checks if a value is not NULL
✓ It returns a specified value if the expression is NULL
It sets a column value to NULL It sets a column value from a regult set
It removes NULL values from a result set Q138. Which MySQL command is used to show the current user and host?

SHOW USER;
CURRENT_USER();
■ WHO AM I;
SELECT USER();
Q139. What is the purpose of the EXPLAIN statement in MySQL?
To provide documentation for a stored procedure
■ To show the structure of a table
To show the execution plan of a SELECT statement
■ To explain the meaning of an error message
Q140. Which MySQL function would you use to round a number to the nearest integer?
CEIL()
□ FLOOR()
✓ ROUND()
□ INT()
Q141. What does the UNIQUE constraint do in MySQL?
It ensures that the column cannot contain NULL values
It ensures that all values in the column are different
It automatically increments the value for each new row
It sets a default value for the column
Q142. Which MySQL statement is used to create an index on a table?
■ ADD INDEX
CREATE INDEX
■ MAKE INDEX
■ INDEX TABLE
Q143. What is the purpose of the COALESCE() function in MySQL?
■ To combine multiple columns into one
■ To check if all values in a list are equal
To return the first non-NULL value in a list
To count the number of non-NULL values in a list
Q144. Which MySQL command is used to start a transaction?
■ BEGIN TRANSACTION
START TRANSACTION
■ INIT TRANSACTION
✓ BEGIN
Q145. What does the CONCAT() function do in MySQL?
It adds numbers together
It joins two or more strings together
It combines multiple rows into one
It merges two tables
Q146. Which MySQL statement is used to create a stored procedure?
MAKE PROCEDURE
ADD PROCEDURE

CREATE PROCEDURE
☐ DEFINE PROCEDURE
Q147. What is the purpose of the REGEXP operator in MySQL?
To perform mathematical operations
☐ To join multiple tables
To perform pattern matching using regular expressions
To check if a value exists in a subquery
Q148. Which MySQL function would you use to get the current user's username?
CURRENT_USER()
■ USERNAME()
✓ USER()
SYSTEM_USER()
Q149. What does the DISTINCT keyword do in a SELECT statement?
It sorts the result set in ascending order
It limits the number of rows returned
It removes duplicate rows from the result set
It selects only specific columns from the table
Q150. Which MySQL statement is used to delete all rows from a table without deleting
the table itself?
■ DELETE TABLE
REMOVE ALL FROM
■ DROP TABLE
✓ TRUNCATE TABLE