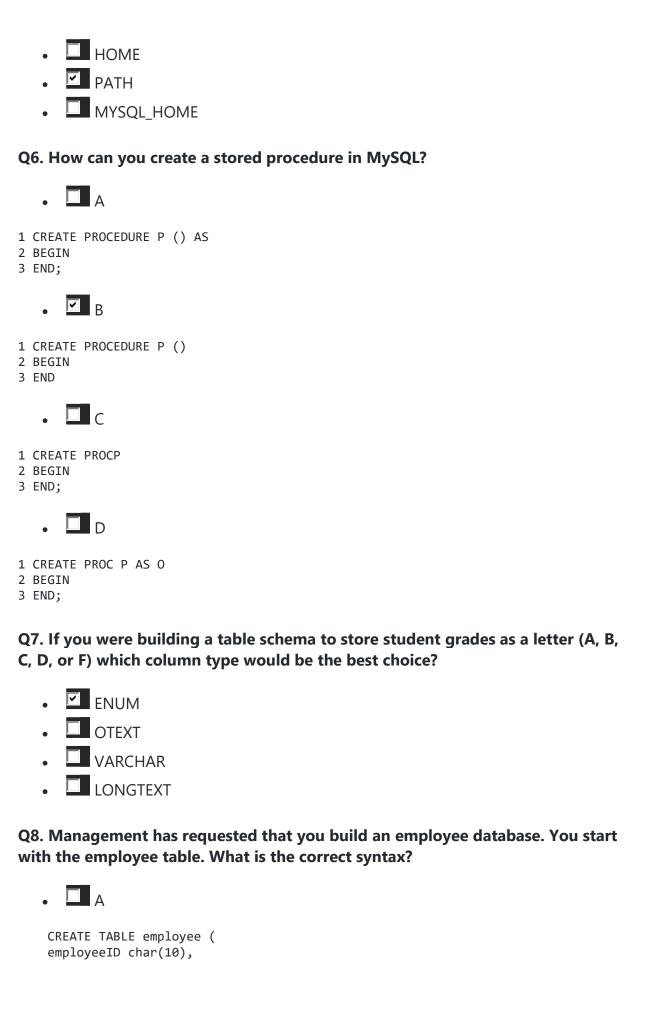
Q1. When you have a subquery inside of the main query, which query is executed first?
<ul> <li>The subquery is never executed. Only the main query is executed.</li> <li>They are executed at the same time</li> <li>the main query</li> <li>the subquery</li> </ul>
Q2. You need to export the entire database, including the database objects, in addition to the data. Which command-line tool do you use?
<ul> <li>mysqlexport</li> <li>mysqladmin</li> <li>mysqldump</li> <li>mysqld</li> </ul>
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?
<ul> <li>row level</li> <li>database level</li> <li>column level</li> <li>function level</li> </ul>
Q4. Which option of most MySQL command-line programs can be used to get a description of the program's different options?
<ul> <li>options</li> <li>?</li> <li>help</li> <li>-h</li> </ul>
Q5. MySQL uses environment variables in some of the programs and command- line operations. Which variable is used by the shell to find MySQL programs?

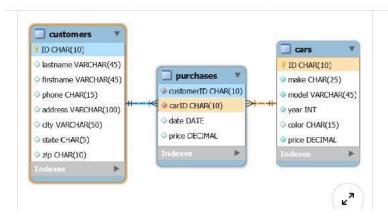
• DIR



```
firstName varchar(50),
lastName varchar(50),
phone varchar(20),
address varchar(50),
PRIMARY KEY ON employeeID
);
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 (
employeeID char(10),
firstName varchar(50),
lastName varchar(50),
phone varchar(20),
address varchar(50),
PRIMARY KEY (employeeID)
);
. 🔽 D
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?

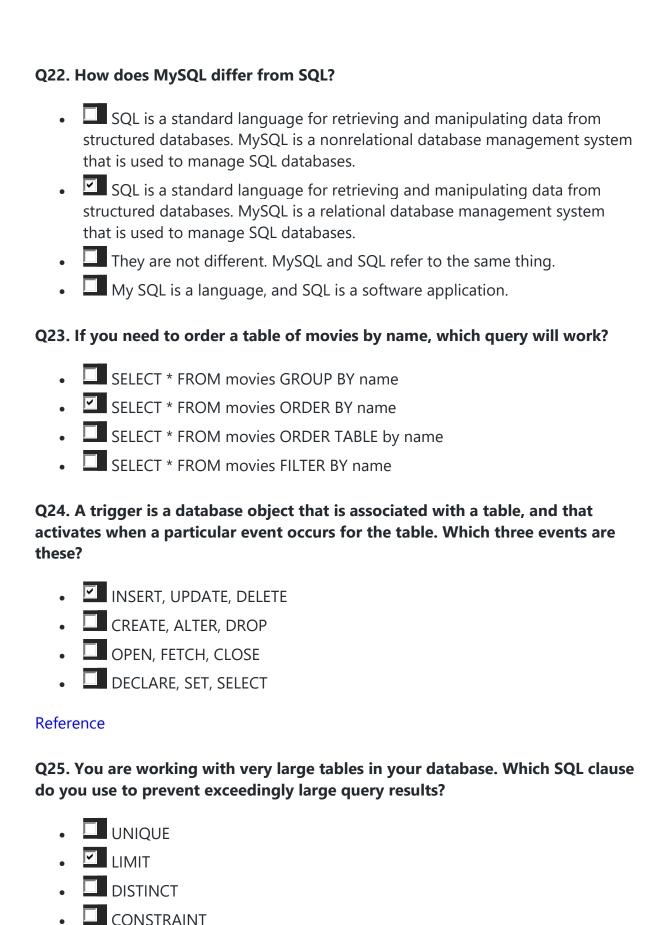
- TRADITIONAL
- ANSI
- MSSQL
- STRICT

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

- user and administrator

	client and server
•	syntax and objects
Q13. W	hich MySQL command shows the structure of a table?
•	INFO table;
•	SHOW table;
•	STRUCTURE table;
•	DESCRIBE table;
	lySQL uses security based on _ for all connections, queries, and other ions that users can attempt to perform.
•	administrator schema
•	encrypted algorithms
•	user settings
•	access control lists
Referer	nce
Q15. W	hich MySQL command modifies data records in a table?
•	UPDATE
•	MODIFY
•	CHANGE
•	ALTER
	hat is the best type of query for validating the format of an email s 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. Ir	MySQL, queries are always followed by what character?
•	line break

•	□ colon □ semicolon □ period
Q18.	How can you remove a record using MySQL?
•	DELETE
•	DELETE FROM
•	REMOVE
•	REMOVE FROM
Q19.	Which choice is NOT a statement you would use to filter data?
•	GROUP BY
•	WHERE
•	LIMIT
•	LIKE
Q20.	What does the following SQL statement return?
	3 - 2 - 3 - 3 - 2 - 3 - 3 - 3 - 3 - 3 -
SELECT	* FROM Employees WHERE EmployeeName LIKE 'a%'
	* FROM Employees WHERE EmployeeName LIKE 'a%'  It records in the Employees table where the value in the EmployeeName
	* 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
	* 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
•	* 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
• • •	* 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".
• • •	* 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".  In SELECT * FROM clients; what does clients represent?
• • •	* 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".  In SELECT * FROM clients; what does clients represent?  a SQL query



Q26. What is the default port for MySQL Server?

•	25
•	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?
•
• 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 headers in the first row. Which clause do you add to your MySQL command?
JOIN
• WITH HEADERS
• 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?

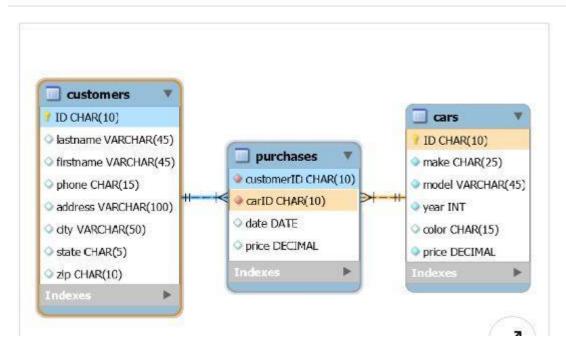
•	the subquery must use an aggregate function.
•	the subquery must refer to the same table as the main query.
•	the subquery must return a single value.
•	the subquery must return at least one value.
looks	Each time MySQL is upgraded, it is best to execute mysql_upgrade, which for incompatibilities with the upgraded MySQL server. What does this mand do, upon finding 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.
	What mysql statement is used to check which accounts have specific eges?
•	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
<b>U30</b>	later versions of mysal support the native ison data type for storing ison

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
- cannot be normalized

#### Q40. Which statement is true for the diagram below

Which statement is true for the diagram below?



- Carid is the foreign key for cars.carid
- ustomerid 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?

- at file|mysql
- Ioad data infile (correct if the file is already on the server)
- Ioad data local infile (also correct but only if the file is from the client)
- extended insert statement

# Q42. You are working with the tables as shown in this diagram. 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?

You are working with the tables as shown in this diagram. 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?



- AFTER INSERT
- BEFORE INSERT
- CROSS JOIN
- IF EXISTS

IF EXISTS and CROSS JOIN are not valid for a trigger.

### 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.
tomporary table also called "customers" with which you are working for the
temporary table also called "customers" with which you are working for the duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?
duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  • CREATE TEMPORARY TABLE customers;
duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  • CREATE TEMPORARY TABLE customers; • DROP TEMP TABLE customers;
<ul> <li>duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?</li> <li>CREATE TEMPORARY TABLE customers;</li> <li>DROP TABLE customers;</li> <li>DROP TABLE customers;</li> </ul>
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duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  CREATE TEMPORARY TABLE customers;  DROP TEMP TABLE customers;  DROP TABLE customers;  DROP TEMPORARY TABLE customers;  1. reference
duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  CREATE TEMPORARY TABLE customers; DROP TEMP TABLE customers; DROP TABLE customers; DROP TEMPORARY TABLE customers;  1. reference 2. reference  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
duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  CREATE TEMPORARY TABLE customers; DROP TEMP TABLE customers; DROP TABLE customers; DROP TEMPORARY TABLE customers;  1. reference 2. reference  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?
duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  CREATE TEMPORARY TABLE customers;  DROP TEMP TABLE customers;  DROP TABLE customers;  DROP TEMPORARY TABLE customers;  1. reference 2. reference  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
duration of your session. You need to recreate the temporary table with different specs. Which command do you need to run first?  CREATE TEMPORARY TABLE customers; DROP TEMP TABLE customers; DROP TABLE customers; DROP TEMPORARY TABLE customers;  1. reference 2. reference  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

This is exactly what WITH clause is designed for

Q48. Which choice is not a processing algorithm for database views?

Improve merge

updatable
temptable
undefined

#### Reference

#### Q49. What is the MySQL perror command-line utility used for?

- to display your version of MySQL
- to display operating system error codes
- uto 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 - link

### 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. I	n which table does MySQL store passwords for user accounts?
•	mysql.accounts;
•	mysql.passwords;
•	mysql.admin;
•	mysql.user;
	to include each employee's current position and salary, as well as all prior ons and salaries with the company. You decide to use a one-to-many
addre the er	ure: an employee table with the main information such as name and ss., and an employment table with position and salary history. You can use nployeeID field to connect them. What is employment.employeeID an ple of?
addre the er	ss, and an employment table with position and salary history. You can use mployeeID field to connect them. What is employment.employeeID an ple of?
addre the er	ss, and an employment table with position and salary history. You can use mployeeID field to connect them. What is employment.employeeID an
addre the er	ss, and an employment table with position and salary history. You can use nployeeID field to connect them. What is employment.employeeID an ple of?  primary key;
addre the er	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an ple of?  primary key; secondary key;
addre the er exam • • • Q55. I	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an ple of?  primary key; secondary key; foreign key;
addre the er exam • • • Q55. I	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an imple of?  primary key; secondary key; foreign key; alternate key; In recent versions of MySQL (8.0+), what's the correct syntax to declare a
addre the er exam • • • Q55. I	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an imple of?  primary key; secondary key; foreign key; alternate key; In recent versions of MySQL (8.0+), what's the correct syntax to declare a common Table Expression)?
addre the er exam • • • Q55. I	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an imple of?  primary key; secondary key; foreign key; alternate key; In recent versions of MySQL (8.0+), what's the correct syntax to declare a common Table Expression)?  WITH (SELECT id FROM users) as cte, SELECT
addre the er exam • • • Q55. I	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an imple of?  primary key; secondary key; foreign key; alternate key; In recent versions of MySQL (8.0+), what's the correct syntax to declare a common Table Expression)?  WITH (SELECT id FROM users) as cte, SELECT WITH (SELECT id FROM users) as cte SELECT
addre the er exam  Q55. I CTE (C	ss, and an employment table with position and salary history. You can use imployeeID field to connect them. What is employment.employeeID an imple of?  primary key; secondary key; foreign key; alternate key; In recent versions of MySQL (8.0+), what's the correct syntax to declare a 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

lacksquare to reduce storage space

- uto make the system faster
- u 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?

# Q58. You are loading data into a table. Which command can you use to make sure that all data is inserted and duplicates rows are discarded?

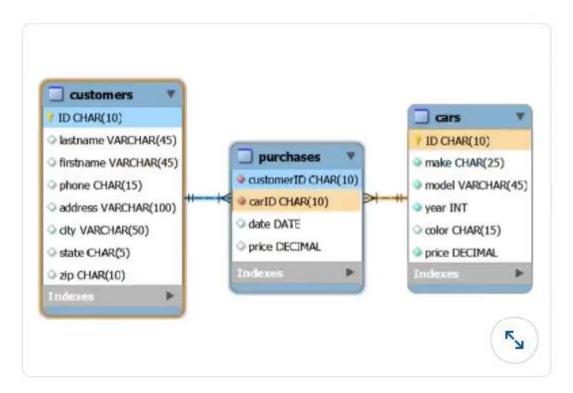
INSERT IGNORE
INSERT UNIQUE
INSERT INTO
INSERT DISTINCT

#### 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 in a 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?



- 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?
• DELETE DUPS
• DELETE DISTINCT
• DELETE JOIN
• DELETE WITH
Q62. When working with MySQL cursor, what must you also declare?
• DEFAULT value
RETURN variable
• SQLEXCEPTION routine
• NOT FOUND handler
Q63. Which type of backup includes all the changes made to the data since the last full backup was performed?
• In snapshot
• logical
differential
• Incremental
Q64. You need to restore a MySQL database from a backup file. Which command-line tool do you use for the actual data import, after re-creating the database?
• mysqld
• wysql
• mysqladmin
• mysqldump
Q65. You are importing data as JSON into a new table. You run CREATE TABLE json_data ( city JSON ); and insert rows into this table. What is the correct syntax to see the list of cities?
• SELECT city FROM json_data;
• SELECT city->>'\$.name' city FROM json_data;
• SELECT city.name city FROM json_data;

• SELECT city->'\$.name' city FROM json\_data;

Note: the last option is valid too but the results will be enclosed with quotation marks

# Q66. If you want to use MyISAM instead of InnoDB, which option do you need to specify in the CREATE TABLE statement?

- ENGINE
- PARTITION
- STORAGE
- TABLESPACE

Q67. You are working with the table in this diagram. You want to use full-text search to find the customers who live on a street or a drive. What is the command to do that?

Table name: customers

ID	lastnam e	firstnam e	phon e	addres s	city	stat e	zip
A00 1	Smith	Bob	212- 555- 1212	1001 1st Street	New York	NY	1000 1
A00 2	Chang	John	213- 555- 5678	888 Rodeo Drive	Los Angeles	CA	9021 0
A00 3	Smith	Mary	999- 999- 9999	123 Main Street	Anytow n	VA	1234 5
A00 4	Johnson	Jack	312- 312- 3120	1111 Chicag o Avenue	Chicago	IL	6060 6

ID	lastnam e	firstnam e	phon e	addres s	city	stat e	zip
A00 5	Lopez	Linda	737- 777- 3333	123 Main Street	Austin	TX	7334 4

. 🗖 A

SELECT \*
FROM customers
WHERE address MATCH 'Street' OR 'Drive';

. 🗖 B

SELECT \*
FROM customers
WHERE MATCH(address) IN ('street, drive');

. 🔲 c

SELECT \*
FROM customers
WHERE address MATCH 'Street' OR address MATCH 'Drive';

. 🔽 D

SELECT \*
FROM customers
WHERE MATCH(address) AGAINST ('street, drive');

### Q68. Which query lists the databases on the current server?

- SHOW DATABASES;
- LIST ALL DATABASES;
- LIST DATABASES;
- SHOW DB:

## Q69. What is the product of the database designing phase?

- all tables, columns, data types, indexes and their relationships
- a list of entities, their relationship, and constraints

•	all tables and their names, which are needed to implement the logical model
•	a list of entities, their relationship, constraints, data types, and cardinalities
Q70.	Which choice is <i>not</i> a valid model for a stored procedure parameter?
•	INOUT
•	
•	OUT
•	IN OUT
Q71.	What is the advantage of using a temporary table instead of a heap table?
•	The temporary table will be dropped when the database is restarted.
•	Temporary tables can be shared among clients, which makes them more usable in group development environments.
•	The temporary table will be dropped as soon as your session disconnects.
•	Creating a temporary table does not require any special privileges.
072.	Which is a valid constructor for a class named User?
4	which is a valid constructor for a class fiamed oser:
•	public construct User() {}
•	
•	<pre>public construct User() {}  public User() {}  public instance User() {}</pre>
•	<pre>public construct User() {}  public User() {}</pre>
	<pre>public construct User() {}  public User() {}  public instance User() {}</pre>
	<pre>public construct User() {} public User() {} public instance User() {} public init User() {} </pre> What is the maximum number of columns that can be used by a single index?
	<pre>public construct User() {} public User() {} public instance User() {} public init User() {} </pre> What is the maximum number of columns that can be used by a single index?
	public construct User() {}  public User() {}  public instance User() {}  public init User() {}  What is the maximum number of columns that can be used by a single index?
	public construct User() {}  public User() {}  public instance User() {}  public init User() {}  What is the maximum number of columns that can be used by a single index?  2  4  8
	public construct User() {}  public User() {}  public instance User() {}  public init User() {}  What is the maximum number of columns that can be used by a single index?
Q73. table	public construct User() {}  public User() {}  public instance User() {}  public init User() {}  What is the maximum number of columns that can be used by a single index?  2  4  8
Q73. table	public construct User() {}  public User() {}  public instance User() {}  public init User() {}  What is the maximum number of columns that can be used by a single index?  2  4  8  16
Q73. table	public construct User() {}  public User() {}  public instance User() {}  public init User() {}  What is the maximum number of columns that can be used by a single index?  2  4  8  16  Which command will return a list of triggers in the current database?

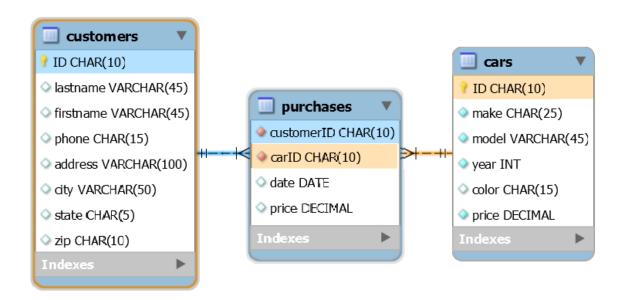
•	SELECT ALL TRIGGERS;
•	SELECT * FROM information_schema.triggers;
Q75.	Which statement is true about TIMESTAMP and DATETIME data types?
•	TIMESTAMP values require more bytes for storage than DATETIME values.
	TIMESTAMP is stored without timezone, and DATETIME is stored in UTC
	values.
•	TIMESTAMP and DATETIME are both stored without time zone.
•	TIMESTAMP is stored in UTC values, and DATETIME is stored in without time zone.
Q76.	What is the equivalent of the mysqladmin reload command?
•	mysqladmin flush-threads
•	mysqladmin flush-tables
•	mysqladmin flush-privileges
•	mysqladmin flush-all
Q77.	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 variables
•	Stored procedures are not secure, because they can execute statements to drop tables or bulk delete data
	How would you retrieve data on all the customers where no phone per is stored?
•	SELECT * FROM customers WHERE PhoneNumber = NULL;

SELECT \* FROM customers WHERE PhoneNumber IS NOT VALID;

SELECT \* FROM customers WHERE PhoneNumber IS UNKNOWN;

SELECT \* FROM customers WHERE PhoneNumber IS NULL;

Q79. In the diagram below, the price field is declared as type DECIMAL. What would be a more efficient declaration for this field?



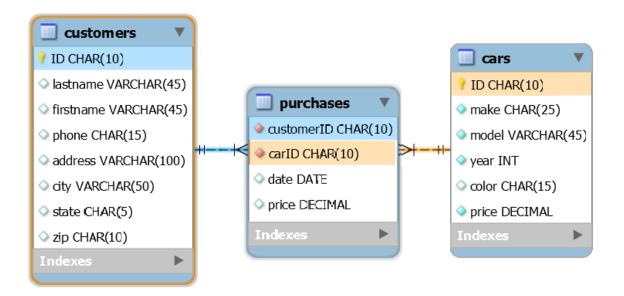
- I FLOAT
- DECIMAL(10,2)
- I NUMERIC
- DOUBLE

Q80. Which choice is not an available string type for a column?

- ENUM
- SET
- BIT
- CHAR

Explnation: BIT is not a string type

Q81. This diagram shows what type of relationship between customers and cars?



- one-to-many
- parent-child
- Imany-to-many
- I many-to-one

Q82. 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

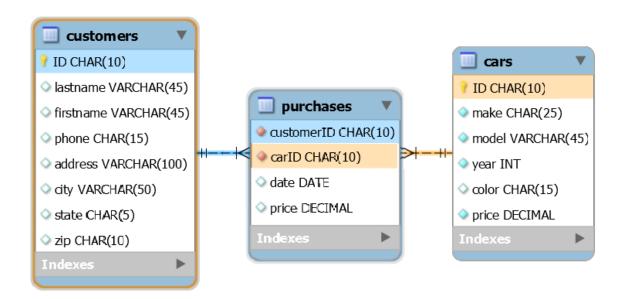
Explanation: Both SET and DECLARE are used to create variables. Reference: MySQL STORED PROCEDURE Tutorial With Examples

Q83. 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

Q84. 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.

### Q85. 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).

Q86. 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

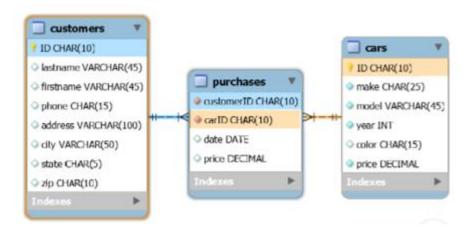
Reference: 4.2.2.4 Program Option Modifiers

#### Q87. What does this SQL statement return?

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

- I 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

Q88. 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?



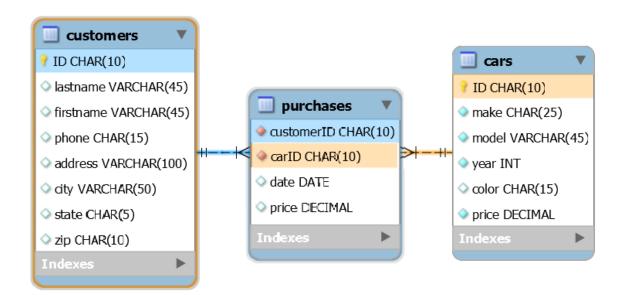
- II UNION
- SHOW TOTALS
- UNION ALL
- WITH ROLLUP

Q89. The left and right joins are also known as \_.

• Inner Join						
Natural Join						
•   Outer Join						
• Cartesian Join						
Q90. What is the valid way to create a database view in MySQL?						
• CREATE VIEW v1 SELECT * FROM t1 WHERE col1 > 10;						
• CREATE VIEW v1 AS BEGIN SELECT * FROM t1 END;						
• CREATE VIEW v1 BEGIN SELECT * FROM t1 END;						
• CREATE VIEW v1 AS SELECT * FROM t1;						
Q91. How are permissions implemented in MySQL?						
• encrypted algorithms						
access control lists						
<ul> <li>user settings</li> <li>administrator schema</li> </ul>						
• user settings	t					
<ul> <li>user settings</li> <li>administrator schema</li> <li>Q92. Inside a transaction, several operations need to be performed. What</li> </ul>	t					
<ul> <li>user settings</li> <li>administrator schema</li> <li>Q92. Inside a transaction, several operations need to be performed. Wha would you do if an exception happens during that transaction?</li> <li>UNDO</li> <li>UNDO</li> <li>UNCOMMIT</li> </ul>	t					
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- Create table size (name: ENUM['Small','Medium','Large']);
  Create table size (name ENUM('Small','Medium','Large'));
- Q95. The mysqldump command cannot generate output in \_.
  - JSON
  - . CSV
  - · 🔲 XML
  - . 🔲 тхт

Q96. You are working with the tables as shown in this diagram. You need to generate the list of all cars, whether or not they had been sold, with the purchase date of the cars that were sold. Which statement accomplishes that?



.

SELECT cars.\*, purchases.date FROM cars RIGHT JOIN purchases ON cars.ID = purchases.carID;

. 🗖 B

SELECT cars.\*, purchases.date FROM cars INNER JOIN purchases ON cars.ID = purchases.carID;

. **I** c

```
SELECT cars.*, purchases.date
FROM cars JOIN purchases
ON cars.ID = purchases.carID;
```

. 🔽 D

SELECT cars.\*, purchases.date FROM cars LEFT JOIN purchases ON cars.ID =
purchases.carID;

# Q97. Which code snippet from a stored procedure should be rewritten as a CASE statement?

. **D** 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;
```

. 🔲 в

```
IF var1 = var2 THEN SET varA = var1;
ELSEIF var2 = var3 THEN SET varA = var2;
ELSEIF var3 = var4 THEN SET varA = var3;
ELSE SET varA = var4;
END IF;
```

. 🔲 c

```
IF var1 = 1 THEN SET varA = var1;
ELSEIF var2 = 2 THEN SET varA = var2;
ELSEIF var3 = 3 THEN SET varA = var3;
ELSE SET varA = var4;
END IF;
```

. 🔽 D

```
IF var1 = 1 THEN SET varA = var1;
ELSEIF var1 = 2 THEN SET varA = var2;
ELSEIF var1 = 3 THEN SET varA = var3;
ELSE SET varA = var4;
END IF;
```

### Q98. 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
- In for reusing recurring queries

## Q99. 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
Hulk	Bruce Banner	Super Strength	Radiation Immunity	Invulnerability

- Create another table to serve as a lookup for powers with fields for code and description, as well as a junction table with superhero names and power codes.
- Add a column to this table to serve as a record identifier, and make it the primary key.
- Extend this table to have additional columns "power4," "power5," and so on, to allow additional powers for each superhero.
- Convert this table to have column called "power," and add one record for each superhero-power combination, for a total of 15 records in this example.

### Q100. What is valid way to create a database view in MySQL?

- I CREATE VIEW v1 2 SELECT \* FROM t1 3 WHERE col1 > 10;
- I CREATE VIEW v1 2 BEGIN 3 SELECT \* FROM t1 4 END

- 1 CREATE VIEW v1 AS 2 SELECT \* FROM t1;
- I CREATE VIEW v1 AS 2 BEGIN 3 SELECT \* FROM t1 4 END;

Q101. A table Item has a Boolean field endOfLife and a field makeYear of type YEAR(4). How can you set the Boolean to true for all Items that have been made before 2019?

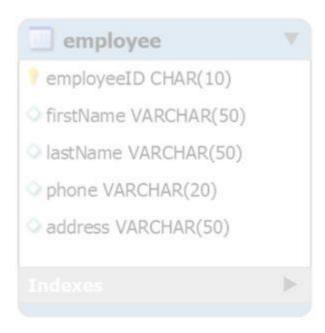
- UPSERT Item SET endOfLife = true WHERE makeYear < 2019
- CHANGE Item SET endOfLife = true WHERE makeYear < 2019
- ALTER Item SET endOfLife = true WHERE makeYear < 2019
- UPDATE Item SET endOfLife = true WHERE makeYear < 2019

Q102. Which choice is an example of an aggregate function? Which choice is an example of an aggregate function?

- NOW()
- MID()
- FORMAT()
- COUNT()

#### Reference

Q103. 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

Q104. 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

Q105. 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 TEMPORARY TABLE customers;
- DROP TABLE customers;