Career Services Assignment 6 – SQL Flash Cards

Points possible: 50

Category	Criteria	% of Grade
Completeness	All requirements of the assignment are complete.	100

Instructions: Research common SQL interview questions online and create 20 flash cards from the information you find. Study your flash cards regularly to better prepare for interviews. Fill out the table below with the information you put on each of your flash cards.

Front of Card	Back of Card

What is MySQL?	MySQL is a database management system for web servers. It can grow with the website as it is highly scalable.
What are some of the advantages of using MySQL?	Flexibility: MySQL runs on all operating systems Power: MySQL focuses on performance Query Caching: This helps enhance the speed of MySQL greatly Replication: One MySQL server can be duplicated on another, providing numerous advantages
What do you mean by 'databases'?	A database is a collection of data stored in a computer system and organized in a way to be quickly searched. This information can be retrieved rapidly.
What does SQL in MySQL stand for?	The SQL in MySQL stands for Structured Query Language
What does a MySQL database contain?	A MySQL database contains one or more tables, each of which contains records or rows. Within these rows are various columns or fields that contain the data itself
How can you interact with MySQL?	There are three main ways you can interact with MySQL: using a command line, via a web interface, through a programming language
What are MySQL Database Queries?	A query is a specific request or a question. One can query a database for specific information and have a record returned.
What are some of the common MySQL commands?	ALTER: To alter a database BACKUP: Backs up a table \c: Cancels an Input CREATE: creates a database DELETE: Deletes a row from a table DESCRIBE: Describes a tables column DROP: Deletes a database or table EXIT(ctrl+c): Exits GRANT: Changes user privileges INSERT: Inserts data UPDATE: Updates an existing record.
How do you create a database in MySQL?	Use the following command to create a new database called 'books': `CREATE DATABASE books;`
How do you create a table using MySQL?	Use the following to create a table using MySQL: CREATE TABLE history (Author VARCHAR(128) Title VARCHAR(128) Year CHAR(4)) ENGINE InnoDB;

How do you Insert Data Into MySQL?	The INSERT INTO statement is used to add new records to a MySQL table: INSERT INTO table_name (column1, column2, etc.,) VALUES (value1, value 2, etc.,); If we want to add values for all the columns of the table, we do not need to specify the column names in the SQL query. However, the order of the values should be in the same order as the columns in the table. The INSERT INTO syntax would be as follows: INSERT INTO table_name VALUES (value1, value2, etc.);
How do you remove a column from a database?	You can remove a column by using the DROP keyword: ALTER TABLE classics DROP pages;
How to create an Index in MySQL?	Example: Adding indexes to the history table: ALTER TABLE history ADD INDEX(author(10)); ALTER TABLE history ADD INDEX(title(10)); ALTER TABLE history ADD INDEX(category(10)); ALTER TABLE history ADD INDEX(year(10)); DESCRIBE history;
How to Delete Data From a MySQL Table?	In MySQL, the DELETE statement is used to delete records from a table: DELETE FROM table name WHERE column_name = value_name
How do you view a database in MySQL?	One can view all the databases on the MySQL server host using the following command: mysql> SHOW DATABASES;
What are the Numeric Data Types in MySQL?	MySQL has numeric data types for TINYINT: very small Integer SMALLINT: small integer MEDIUMINT: medium-sized integer INT: Standard Integer BIGINT: Large Integer DECIMAL: Fixed-point number FLOAT: Single-precision floating-point number DOUBLE: Double-precision floating-point number BIT: Bit-field

What are the String Data Types in MySQL?	CHAR: fixed-length nonbinary(character) string VARCHAR: variable-length nonbinary string BINARY: fixed-length binary string VARBINARY: variable-length binary string TINYBLOB: Very small BLOB(binary large object) BLOB: Small BLOB MEDIUMBLOB: Medium-sized BLOB LONGBLOB: Large BLOB TINYTEXT: A very small nonbinary string TEXT: Small nonbinary string MEDIUMTEXT: Medium-sized nonbinary string LONGTEXT: Large nonbinary string ENUM: An enumeration; each column value is assigned, one enumeration member SET: A set; each column value is assigned zero or more set members NULL: a value in a field that appears to be blank. This value is different than a zero value or a field that contains spaces.
What is BLOB in MySQL?	BLOB is an acronym that stands for a Binary Large OBject. It is used to hold a variable amount of data.A BLOB can hold a very large amount of data.
What are MySQL "Views"?	In MySQL, a view consists of a set of rows that is returned if a particular query is executed.
What are MySQL Triggers?	A trigger is a task that executes in response to some predefined database event, such as after a new row is added to a particular table.

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