

Career Services Assignment 6 – SQL Flash Cards

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 a database?	A database is an organized collection of data, stored and retrieved digitally from a remote or local computer system.
What is DBMS?	DBMS stands for Database Management System. DBMS is a system software responsible for the creation, retrieval, updation and management of the database.
What is RDBMS? How is it different from DBMS?	RDBMS stands for Relational Database Management System. The key difference is that RDBMS stores data in the form of a collection of tables, and relations can be defined between the common fields of these tables.
What is SQL?	SQL stands for Structured Query Language. It is the standard language for relational database management systems.
What is the difference between SQL and MySQL?	SQL is a standard language for retrieving and manipulating structured databases. MySQL is a relational database management system, like SQL Server.
What are Constraints in SQL	Constraints are used to specify the rules concerning data in the table. They are: NOT NULL, CHECK, DEFAULT, UNIQUE, INDEX, PRIMARY KEY, FOREIGN KEY
What is an Index? Explain its different types.	A database index is a data structure that provides a quick lookup of data in a column of columns of a table. It enhances the speed of operations. The different types of indexes are: Unique and Non-Unique and Clustered and Non-Clustered.
What is Data Integrity?	Data Integrity is the assurance of accuracy and consistency of data over its entire life-cycle and is a critical aspect of the design,



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	statement. AVG(), COUNT(), MIN(), MAX(),
	SUM(), FIRST(), LAST()
What are Scalar functions?	A scalar function returns a single value based
	on the input value. LEN(), UCASE(),
	LCASE(), MID(), CONCAT(), RAND(),
	ROUND(), NOW(), FORMAT()
What are the various types of User-defined	There are Inline functions which returns a
functions?	table data type based on a single SELECT
	statement. Then there is a Multi-statement
	function which returns a tabular result-set but
	multiple SELECT statements can be used
	inside the function body.
What is OLTP?	OLTP stands for Online Transaction
	Processing, is a class of software applications
	capable of supporting transaction-oriented
	programs. An essential attribute of an OLTP
	system is its ability to maintain concurrency.
What are the differences between OLTP and	OLTP is capable of supporting
OLAP?	transaction-oriented programs while OLAP or
	Online Analytical Processing is a class of
	software programs that are characterized by
	the relatively low frequency of online
	transactions. They rely primarily on response
	time.
What is Collation? What are the different	Collation refers to a set of rules that determine
types of Collation Sensitivity?	how data is sorted and compared. It
	incorporates options for specifying case
	sensitivity, accent marks, kana character
	types, and character width.