

CMRapp Career Services Assignment 6 – SQL Flash Cards

Points possible: 50

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

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 SQL?	Structured Query Language. Used in almost every
	relational database to write queries, access, edit and
	retrieve data.
What is a database?	An organized collection of digital information, or data,
	stored in a computer system. Can handle massive
	quantities of information while allowing multiple users
	access to the same database to run secure and independent
	queries.
What is an RDBMS?	Relational Database Management System is essentially a
	database utilizing a tabular schema to organize multiple
	data elements related to each other. Allowing you to
	define, create, and maintain relational databases in
	addition to providing controlled access to the data within.
What is a DBMS?	Database Management System functions similarly to the
	RDBMS described above. However, DBMS data elements
	are stored as files rather than in tabular form, and there is
	no relationship between different data elements.
What is a PRIMARY KEY constraint?	A PRIMARY KEY constraint is a column (or
	combination of columns) used to designate each table row
	with a unique identifier.
How many Primary Keys can a table have?	There's a limit of one PRIMARY KEY constraint per
	table. All columns defined within a PRIMARY KEY
	constraint must be defined as NOT NULL.
What is a FOREGIGN KEY constraint?	A FOREIGN KEY is a column or collection of fields in a
	table referencing a PRIMARY KEY in another table.
What is the relationship between Primary Keys and	The table containing the primary key is known as the
Foreign Keys?	parent table, and the table containing the foreign key is
	called the child table.
What is a UNIQUE constraint?	Like the PRIMARY KEY, the UNIQUE constraint also
	ensures that each value is different from the others in its
	column. However, tables can have multiple columns with
	UNIQUE constraints, unlike the PRIMARY KEY
	constraint, limited to just one.



What is a SQL JOIN Clause?	A JOIN clause combines rows of data in different tables
	with a shared column.
What are the types of JOINs?	INNER, OUTER LEFT, OUTER RIGHT & CROSS
What is a query?	A set of instructions written in a query language like SQL
	that allows an individual to access information held in a
	database.
What is a subquery?	A subquery is a query nested inside of another query
What is a SELECT Statement?	The SELECT statement is used in SQL queries to store
	specific data elements or fields from a table and return
	them in a result set.
What is the format for a basic SELECT statement?	SELECT [column(s) to retrieve]
	FROM [table to access]
	WHERE [optional – specifies rows in the FROM tables to use]
What are ACID properties?	The ACID properties refer to properties that must be
	followed for transactions in a database management
	system to remain consistent.
What is the Atomicity property (A in 'ACID')?	The entire transaction takes place at once or not at all.
What is the Consistency property (C in 'ACID')?	A database must be consistent before and after a
	transaction takes place.
What is the Isolation property (I in 'ACID')?	Transactions occur independently and can run
	concurrently with others.
What is the Durability property (D in 'ACID')?	Updates to the database must be stored in and written to
	disk so that transaction records can persist in the event of
	a system failure.
What is schema?	Schema is an abstract representation of logically
	structured data elements. Database schemas in SQL are
	defined at the logical level by a database user known as
	the schema owner.
What is the difference between CHAR and VARCHAR	The character or CHAR datatype stores fixed length
datatypes in SQL?	character strings. The variable character or VARCHAR
71	datatype stores variable length character strings.

Source: https://www.educative.io/blog/top-40-sql-interview-questions?utm campaign=performance-max