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 are fields and tables?	A table is a set of data organized into rows
	and columns. The column names are called
	fields.
What are the different types of SQL	There are 3 different types of SQL languages:
languages?	DDL = Data Definition Language – used to
	create, alter, and delete tables and table
	structure.
	DML = Data Manipulation Language – used
	to manipulate and retrieve data. Can insert,
	update, delete, and retrieve data.
	DCL = Data Control Language – used for
	setting access to the database, granting user permissions, etc.
What are Joins?	Joins are used to combine rows from 2 or
what are Johns?	more tables using a related column.
What are the 4 types of Joins?	Inner join = retrieves rows that have matching
	values in the tables in the join.
	Left (outer) join = retrieves all the records
	from the left table and matching rows from
	the right table even if the rows in the right
	table are empty.
	Right (outer) join = retrieves all the records
	from the right table and matching rows from
	the left table, even if the rows in the left table
	are empty.
	Full join = return all the rows from both
	tables.
What are relationships in a database?	Relationships are the connection between
	tables in a database.
What are the types of relationships in a	One-to-one = one record in a table
database?	corresponds to only one record in another
	table.
	One-to-many/Many-to-one = one record in a table corresponds to many records in another
	table.
	Many-to-many = many records in one table
	correspond to many records in another table.
	correspond to many records in another table.

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What are primary keys?	Primary keys are usually single columns or
	fields used to uniquely identify each row.
	They must not be null, and each table can
	have only one primary key.
	Multiple fields can be combined to make a
	composite primary key.
What are foreign keys?	A foreign key is usually a column that has the
•	primary key of another table. This defines the
	relationship between two tables.
What is a query?	A query is language written to retrieve
1 0	information from a database.
What is a subquery?	A subquery is a query within another query.
What are constraints?	Constraints are limitations put on data types
	in a table, such as not null, default, primary
	key, or foreign key.
What is auto_increment and why would you	Auto_increment is a function of the database
use it?	that generates a unique number, usually an
	integer, for each record in a table. It is best
	used to create primary keys.
What is a default constraint?	A default constraint defines a value for a
vi nat is a uchaun constraint?	column so that any new records automatically
	get the default value if the user does not put a
	value in that column.
What are some browning for a grown?	
What are some keywords for a query?	Queries start with SELECT, then use FROM
	to define the table(s) to get data from.
	WHERE is used to filter records so you only
	get the records that contain the data you want.
	ORDER BY is used to sort the data in
	ASCending order or DESCending order.
	GROUP BY is used to gather records that
	have identical data and may be used with
	aggregate keywords to create summaries.
	HAVING is the keyword used with GROUP
	BY to filter aggregated records.
What are aggregate functions?	Aggregate functions are used to summarize
	data without having to retrieve every row.
	AVG(arg) = returns the average value of the
	argument.
	SUM(arg) = returns the sum of the argument.
	COUNT(arg) = returns the number of rows
	that meet the criteria defined in the query.
	MIN(arg), MAX (arg) = returns the smallest
	and largest values in the argument.
What is the ACID property in a database?	ACID stands for Atomicity, Consistency,
property in a database.	Isolation, and Durability.
	Boladon, and Dataonity.

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What is Atomicity?	Atomicity means that if any part of a
	transaction fails, the entire transaction fails,
	and the database is not changed in any way.
What is Consistency?	Consistency means that the data is always
	valid and validated based on rules created and
	applied in the schema.
What is Isolation?	Isolation means that each transaction is not
	affected by any other transactions occurring.
	Rows can be updated even if someone is
	reading them.
What is Durability?	Durability means that once the data is
	properly entered into the database and
	committed, it remains in the database until it
	is removed by a programmer or authorized
	user.
	Even system crashes cannot disrupt the data.