## JDBC Introduction

## Java DataBase Connectivity (JDBC)

- accesses the data from the relational database
- relational database organizes data into tables consisting of rows and columns
  - this is how JDBC will access and process the data
- to interact with relational database we use SQL (Structured Query Language)
- there are many dialects (flavors of SQL)
  - e.g. PostgreSQL, MySQL, SQLite, Oracle SQL, Apache Derby, H2, etc.
- you don't need to know any specific dialect for the exam
  - you'll encounter only simple queries which are self-explanatory

## Create, Read, Update, Delete (CRUD)

there are four basic operations one can do on a relational database:

CREATE: inserts a new row into the table

SELECT: retrieves (reads) data from the table

UPDATE: changes data in 0 or more rows in the table

DELETE: deletes 0 or more rows from the table

## Sample Table in Relational Database

id	first_name	last_name	email	phone_number
1	Marthena	Worms	mworms0@stumbleupon.com	379–764–5644
2	Marlane	Bullant	mbullant1@themeforest.net	423-916-8251
3	Godfrey	Cheasman	gcheasman2@ucsd.edu	674–547–9738
4	Charlot	McFall	cmcfall3@networkadvertising.org	694–697–5072
5	Zita	Leggott	zleggott4@deliciousdays.com	868-809-0618
6	Parrnell	Daniellot	pdaniellot5@ox.ac.uk	981-280-9926
7	Aloysia	Critchlow	acritchlow6@reference.com	713-463-3562
8	Shelba	Benham	sbenham7@newyorker.com	299-775-1912
9	Constancia	Chatband	cchatband8@columbia.edu	631-280-6067
10	Dynah	Garford	dgarford9@accuweather.com	824-783-5252

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