CS304 Database System Concepts

03/20/2012 Quiz 3

- Which of the following statement is correct?
 - a) Candidate keys are permitted to be null
 - b) Primary keys are permitted to be null
- c) Integrity constraints mainly guard against system crash.
 - d) you cannot create a type in SQL.
- If you want BOB to transfer his privileges, which option will you use when you create an account for him?
 - a) with grant option
 - b) reference
 - c) all privileges
 - d) public

- Which statement about JDBC is NOT correct?
 - a) JDBC can retrieve metadata
- b) Prepared statement is better than string concatenating
- c) By default, each SQL statement is treated as a separate transaction.
 - d) JDBC can only handle English character
- Which statement is a safe tuple calculus expression?
 - a) $\{t \mid \neg t \in r\}$
 - b) $\{t | t[A] = 5 \lor true\}$
 - c) $\{t | t[name] \neq Bob \land t[gender] = male\}$
 - d) $\{t \mid t \in instructor \land t [salary] > 80000\}$

- What is the value of $dom(t \in r \land t[a] = 1)$
 - a) the set only contains 1
 - b) the set of all values appearing in r
- c) the set contains all possible values of each attribute in r.
- d) the set containing 1 and all values appearing in r.
- Which type of relationship does the following ER diagram express?
 - a) one-to-one
 - b) one-to-many
 - c) many-to-one
 - d) many-to-many



- In ER diagram identifying relationship is depicted by?
 - a) Double diamond
 - b) Rectangle
 - c) Rhombus
 - d) Cycle
- Which is the best schema for the following ER diagram?

student

ID

name tot cred

- a) advisor=(s_id,i_id)
- b) advisor=(s_name,i_id)
- c) advisor=(s_id,i_name)
- d) advisor=(s_name,i_name)

- Which information is NOT useful in create a schema to represent aggregation?
 - a) primary key of the aggregated relationship
 - b) the primary key of the associated entity set
 - c) any descriptive attributes
 - d) attributes of the aggregated relationship
- Which design is better for a multivalued attribute M of an entity E?
 - a) represent M in a single table
 - b) represent M with other attributes together
 - c) represent M with composite attributes
- d) represent M in a relationship associated with E