2/10/24, 1:16 PM OneNote

Review questions handwritten

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Monday, February 5, 2024 9:47 PM
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Chustion 1

The main construct of representing dotain a Relational Hodel is a Relation of relation consists of a Relation schema and correlation intence. The relation notance is a table and the relation schema describes the column heads of the table Agree or writy of a relation is the number of fields. The cardinality of a relation is the number of tuples in it

The domain constraints in the schema specify an important condition that we want each instance of the relation to activity Therebus that appear in a scolumn must be drawn from the domain associated with that column.

Chustion 2

Create Table enables definition of a Relation update Table enables modification of relation instances

om integrity constraint is a condition specified on detabase scheme and nestricts the date that can be stored in an instance of formany key constraint: key is a minimal subset of fields of a relation which is a unique identifier of so the database type

Aset of keys which uniquely Edentifies a tuple according to a key constraint is called a reardilate key of the relation. The foreign key in the referenced section PRIMARY KEY (cold name)

POREIGN KEYK colvanus) references TABLENAMEK (of Name >) we can men express table constraints and assertions in SQL

Justin 4

ICE are specified when a relation is constituted inforced when a relation is modified ency potential IC violation is generally checked out the end of each SQL statement execution although it can be deferred until the end of the transaction executing the statement

Definitial Entegrity inforcement steps: "Constraints which hind a referencing table to a referenced table options. no action, cascade, nell, default

Justin 5

A constraint is checked at the end of energy SQL statement that resuld led to a violation, and if there is no well that the statement is rejected. constraint in deferred or inimediate mode? A constraint at deferred mode is checked at Commit time

A relational database gurry is a quistion about the data and the answer consists of a new relation containing the result.

Justin 7

entity sets: each attribute become an attribute of the corresponding relation Relationship sets without constraints Relationship sets with donstraints ky contraints, participation contraints, hole indicators, weak entity sets, cless hierarchies, aggregation

Custian &

It wish is a table when how are not explicitly stoud in the database but are computed as needed from the new definition (hysical schema for a relational database describes how the relations in the conceptual solution and indexes used solutional relations in the estimate solution and indexes used solutional relations in the estimate solution defined using the view mechanism. The nino mechanism provides a way for logical data independence in the relational model at its used to defined relations in the society estimate solution of the database that makes change in the society and the database that masks changes in the conaptual scheme of the database from applications.
We can define views that give a group of words access to just the information they are allowed to so buries on views are evaluated in the second seme way as they are evaluated on a base table

SOL-92 standard allows updated to heffen only on views that are defined on a single base table using just solution and projection, with no use of a gorgate operations and even "distinct". These views are called updated views if use although to more through a view that doon't contain the primary key of the table. Attending the viewthing will be rejected SQL-1999: we can update a fill of a view if it is obtained from exactly one of the undulying tables and the primary key of that table is one of the fields of the view

Dustin 9

atter tall, drop table

when me distroy a view, it works the same way as distroying / dropping any has tables but its has tateles will not be dropped when the wew is dropped

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