of relations Symmetro) Moone Character Aelational spermas - Was proposed by E.F Gold - Relation state r(R): subset of the arterian - Palation books like a table - southing a set of rows. - Is a mathematical concept based on the ideas of sets Schaus of a relation => K(Ab, Az..., An) < K: value of - The tuples are not considered to be ordered product of the domains of its attributes. Up will see in sql by the model per se - Application bused - WE consider the attributes in K (As, Az, ... An) and the Counct be expressed tock value in a tuple must be from the domain of All values are considered atomic (notivirished) or semantic constraints - tulnerent or implicit constraints: bused on the dota model though or not available or inapplicable in cortain tuples Null value is used to represent values that are unknown, or explicit - schowa baxel the attribute for that colour. values in t = <1/2,1..., va) to be ordered La All Gremple stide 13. constraints - Entity intersity =) The PK of each relation connect have nulls values in any tuple. [- Referential intervity =>A constant involving the relations - Dornain constraint: set of valid values for each - Key owhount => Key and superkey to Tupes in the referencing relation Rd have attributes Lathe value in the FK coloun in 12d can be: FK (foreign Kers) that references the PK of the references relation R2. De mell 0) 8× in 22 Loa 'minimal' superkey. DAI...., An : the Locach ofthisto adributes has a domain Chapter 05. The Relational Data Model and Relational DB constitute. DB scheme Ð DB state Deligiones Operation (5) - 124,122,..., 124 are the names of the individual relation echouses - S= 3Rd, Rz,..., Ruf and a set of IC - S is the name of the whole DB schema L-A 56 state that does not never the constraints is an invalid state. -The set of relation schauses that belongs to the same DS - Is sometimes called snapshot - Is the set of relation states DB=75,152,..., rul much that is is - UPDATE may vidate a state of Ri. within the detabase S - DELETE may violate vidate any of not want conjuming domain constraint and outy referential The spage AT The sproge AR the authorists Oh spails AR - Key constraint - Domein constraint - Ewkity Lute grity - referential intervity constraint - If the PK value of the tuple being deleted is refereused from other tuples in DB. - Any of other contraints may also be violated, depending on the attribute being update: - Updating the FK (Foreign Kers) - Updating the PK (Rimary Ker) - Updating an ordinary attribute - lassada . Postrict reject the deletion - set mull / set default