1. Key differences betwo Instance and scheme: i) A schema is the design representation of a database whereas instance is the snapshot of a database at a particular moment. data is removed on added in the database. As against, the changes in scheme occurs Data modelling is the process of developing data model for the data to be stored in a Database. Data Models ensure consistancy in naming convention, défault values, semantics, security while ensuring quality of one data. Data model structure helps to defin the relational models, primary and foreign keys while ensuring quality of data and stored procedures. The 30 types are conceptual, logical and physical. DHL. DDL 3. Key Nota Hamipulation lang. Data Definition lang. Notes: Full your to insert, update to create database; or delite newords. Uscya scheme, constraint, etc INSERT, UPDATE CREATE, DROI, RENAME & DELETE Commands

a design reproductively on of a a da dient 200 is wrong mantel afint 3 database Trycomec charges As against. The change after a ferriogo of 3 - Jier architecture data reveded you the data to bed itered & Client O. T. Sever shale merring quality of data some 5. A data dictionary is a collection of names definitions and attributes about data releman that are being used or captured in a database, information system, or part of Notes: a research project. It herribes the meaning and purposes of data elements. Hetadata describes about deta. It is data about data ine it gives detailed eyo. about The data elements of data dictionary.

in Specialised data handling Database backup and recovery v) Searrity vi) Authentication vii) Capacity planning viii) Performance monitoring ix) Database tuning x) Troublehooting 7. Entity set is a collection or a group of entities sharing enactly the came set attributes. All entitles can be distinctly identified in an empty set. · The collection of entity sets and their co relational sets tojether forms a database. strong entity sit Weak entity set Sun i) It always hers primary if while it has purt discrimination ky is Not dependent ii) Dependent on sthe Notesia Represented by single Represented by a perticipation or not rectargh have total partici

ii) Not possible to determine is kossible to value us attributes. io) It will be find in gt will be in nature iv) Represented by an oral in Ripresented oval time data access of Data cares is longer. 10. Total Participation Partial Partie of Spenfies that each entity i) specifies the compulsority participate in at least one whationship in the entity or may not y in relational i) Mandatory participation in of tional pair representation representati

suoid on table. I mat is primary ky in can't out null in can accept multiple values and mull value in) we can only have in we can have more one primary key in then one key on a table. Pelaberral N in also known of table 12. Many to one mapping. B Land Cold of Cold of Model of Cold of Cold of Model of Cold pelational schemas for a whole database. the describe an screeture and constraint Many to many mapping into Notes: Motes: Maria Mari

as output. It uses various operations to Jeyomi this action. Sat Relational dyel grery quations are performed recurstively on a relation. The output of these operations is a new relation, which migh he formed from one or more orput selo Relational schema is also known as table 14. Schema. A set of attributes is called a relation schema. It can be thought of as relation. It is the logical deposition of a A databay schema is the collection of relational schemas for a whole dotabase. It describes the structure and constraints of data representing in a particular doma The ninimal set of attribute which can unique identify a tuple is known as candidate key for ch. STUD-NO in STUDENT relation. The value. of candidate key is unique and There can be more than one candidate key in a relation,