Data Wase housing for Business Intelligence Specialization -by Univ. of Colorada

Skills: Oracle, MySQL

Micso-Strategy

ERD Diagrams using Ex Assistant

Duta modeling

Course 1: Database Management Essentials

Objectives: Coeste entity relationship diagrams (ERDs)

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Coeste entity requirements.

Coeste entity requirements.

Coeste entity reduisements.

Coeste entity relationship diagrams (ERDs)

Coeste entity

Week#1 Course Introduction Lim of course is tover:

(reate tables in relational data base
& develop integrity Rules (Module 1 to 3)

Data Retrival using SQL (Module 4 & 5) Data Modelling (Module 6&7) Réfine Table Design for Rédundances. Réfine Table Design for Modules 829) Converssion Rules & Groidelines Module 10& W Introduction to Databases

LDBMS Data is haw factor & events Databases are pessistent, inter-related& Straved storage of Data. > An entity-relationship diagram (ERD) is a type of data modelling that shows a graphical representation of objects 08 concepts within an information system or organisation & their rélationship to one another.

Organisational Roles -Organizational Area Information Los post of work. Technology interact with Databases > Xaba Specialists > Indisect Reports we given (a pussive sole) > losenebor. -> Developer, Request existing forms

los seposts using pasameters input

values that change from usage to

usage

Jower

Jower Responsible for collecting requirements designing polication build a formal reports have above in information access. Watabase Administrator: Maintance of Database Applicance; access control & upgrade activities. Data Administatati This is a managment vole with responsibilities to plan development of new databases & Control usage of data throughout an organization

DBMS overview & Database Definition-USINO. A collection of components that supposts the exection, use & maintenance of databases. DBMS Charecteristics: Efficient 860 rage & rebrieval of data Data Acquisition Dissemination Maintenance Formattona Formattona Servers soning unix Enterptice OBMS use servers soning unix IBM's MVS operations systemse Microsoft Windows serversos. Dooche is considered the leading provider of enter prise database products followed by Microsoft, IBM & SAP& TERADATAS MYSQL. Dutabase Definision (Schema) is differencia -bor blu spreadshoets & DBMS. SQL is used to communicate with a DBMS typically provide graphical tools to augment the schama Creation

Non-procederal Access What data to retrive is specified but
how to retrive is left to DBMS.

Query:
A database query can be either a simple data retrieval query or an action query that performs additional operations on the data, such as insertion, updating or deletion. Toursaction Processing!—
transaction processing involves
transaction processing involves
the control of information flows. Supports daily operations of an Collection of database operations organsation. Reliable & efficient processing of boarsactions as one unit of work is necessary of Database consistences. are called transactions. No lost data due to interesence among multiple osers Recover from failures without loss of data for completed transactions. DBMS internal Features like Concussancy control manages & Recovery manager are corcial for Transaction Processing.

Tha Wasehouse processing. Operational databases support essential organasitional fonctioning such as order processing manufacturing, accounts payable & producted istribution Short term problems are solved in an organisation with operational data. 11 Data Wasehouse" refers to a logically centralized data repository where data from operational databases & other data from operational databases & other sources are integrated, cleaned & standardized to support B.I. ceTransactional processing" is poimority in operational databases where Carge volume et bransactions occur with small amounts of data required daily essential Busthess activities. is collection of his to sical Data From operational Databaser & external Data Sowices.