

MODUL TIK UNTUK SMA

istiyanto.com

Mari Berbagi Ilmu Dengan Yang Lain

Pesan soal-soal matematika untuk SD, SMP dan SMA ?

Soal ulangan harian, ulangan mid, ulangan semester, soal-soal UAN dll.

Tulis permintaan Anda dan kirim email ke:

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DATABASE ORACLE

KELAS XI-IPA

Pertemuan-1

Materi pokok di kelas XI Semester 1:

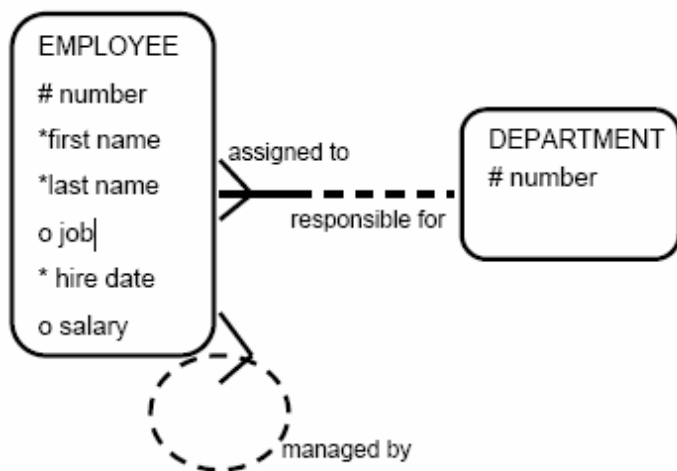
Database Design and Database Programming with SQL

Cakupan Materi:

- **Database Design:** entity relationship modeling, database design, development, normalizer
- **Database Programming:** SQL (structure query language)-the language of database, accessing data with SQL, data definition, manipulation dan control languages, transaction control

Software: Oracle 10g Express Edition

Contoh ERD (Entity Relationship Diagram)



the manager of

Contoh SQL command:

```
SQL>CREATE TABLE DEPARTMENT
2 (DEPTNO NUMBER(5) NOT NULL PRIMARY KEY,
3 NAME VARCHAR2(25) NOT NULL,
4 LOC VARCHAR2(30) NOT NULL);
```

Introduction to Database

Untuk diketahui:

- Apa itu oracle ?
- Layanan-layanan oracle dalam bidang pendidikan untuk segala tingkatan: think.com, thinkquest.com, the Oracle Academic Initiative, The Workspace Development Program (WDP)
- Apa perbedaan data dan informasi ?
- Contoh data dan informasi
- Apa itu database ?
- Data Modeling

Hal-hal yang ada dalam proses pengolahan database:

1. table name
2. column name
3. Keys: Primary Key (PK), Foreign Key (FK)
4. nulls
5. unique
6. datatype

Conceptual and Physical Model

Entity, Instances, Attributes and Identifiers

Entity: segala sesuatu yang mencirikan suatu bisnis tentang suatu data yang harus diketahui, nama dari sesuatu yang dapat didaftar, biasanya berupa kata benda.

Contoh:

Objects, events, people

Setiap entities memiliki instances.

Contoh: Person-Mahatma Gandhi, Animal-Dog

Attributes: segala sesuatu yang mendeskripsikan, mengelompokkan, menjumlahkan entity. Attribute dapat berupa: number, a character string, a date, an image, a sound

Contoh:

Customer: family name, age, shoe

Employment contract: start date, salary

Suatu attribute wajib memiliki nilai tunggal (a single value)

Pertanyaan:

Apakah lagu memiliki attribute dan UID (Unique Identifier)? Berikan contohnya !

Latihan:

1. The three entities that play a role in a DJ business: SONG, EVENT, and CUSTOMER are listed as the first three column headings of the table below. The fourth column contains a collection of attributes. Use a check mark to indicate if the attribute listed could be an attribute for the entities listed. (For example, could Title be an attribute for Song, for Event, and for Customer?)

SONG	EVENT	CUSTOMER	
			Title
			Description
			Venue
			First Name
			Phone
			Number
			Release date
			Last Name
			Type
			Email
			address

2. Read the given business scenario and walk through the steps below.

"I'm the owner of a small movie rental store. We have over 3,000 movies that we need to keep track of. "Each of our movies has a DVD or VHS tape number. For each movie, we need to know its title and category (e.g., comedy, suspense, drama, action, war, or sci-fi).

"Yes, we do have multiple copies of many of our movies. "We give each movie a specific ID, and then track which

DVD or VHS contains the movie. A movie can be either DVD or VHS format. "We always have at least one DVD or VHS tape for each movie we track, and each DVD or VHS tape is always a copy of a single, specific movie. "Our DVDs and VHS tapes are very long. We don't have any movies that require multiple DVDs or VHS tapes."

- a. Write a list of nouns used in the scenario.
- b. Name each entity.
- c. Is each instance of the entity uniquely identifiable? Which attribute or attributes could serve as the unique attribute to identify the entity?

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