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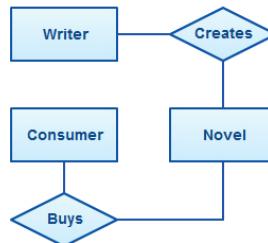
Ultimate ER Diagram Tutorial (Entity Relationship Diagrams)

Updated on: 30 April 2019

So you want to learn ER diagrams? This ER diagram tutorial will cover their usage, history, symbols, notations and how to use our [ER diagram software](#) to draw them. We've also added some templates for you to get started quickly.

What is an ER diagram?

An Entity Relationship Diagram (ERD) is a visual representation of **different entities within a system and how they relate to each other**. For example, the elements writer, novel, and a consumer may be described using ER diagrams the following way:



ER diagram with basic objects

They are also known as ERD's or ER models. Click on the below links if you want to learn something specific about ER diagrams.

- [History of ER diagrams](#)
- [ER Diagram Usage](#)
- [ER Diagrams Symbols and Notations](#)
- [How to Draw ER Diagrams](#)
- [ER Diagram Templates](#)
- [Benefits of ER Diagrams](#)

History of ER Diagrams

Although data modeling has become a necessity around 1970's there was no standard way to model databases or business processes. Although many solutions were proposed and discussed none were widely adopted.

Peter Chen is credited with introducing the widely adopted ER model in his paper "[The Entity Relationship Model-Toward a Unified View of Data](#)". The focus was on entities and relationships and he introduced a diagramming representation for database design as well.

His model was inspired by the data structure diagrams introduced by Charles Bachman. One of the early forms of ER diagrams, Bachman diagrams are named after him.

For a detailed history of ER diagrams and the evolution of data modeling, [refer this article](#).

ER Diagrams Usage

What are the uses of ER diagrams? Where are they used? Although they can be used to model almost any system they are primarily used in the following areas.

ER Models in Database Design

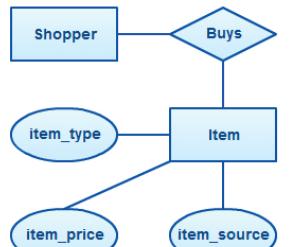
They are widely used to design relational databases. The entities in the ER schema become

taries, attributes and converted the database schema. Since they can be used to visualize database tables and their relationships it's commonly used for database troubleshooting as well.

ER diagrams in software engineering

Entity relationship diagrams are used in software engineering during the planning stages of the software project. They help to identify different system elements and their relationships with each other. It is often used as the basis for data flow diagrams or DFD's as they are commonly known.

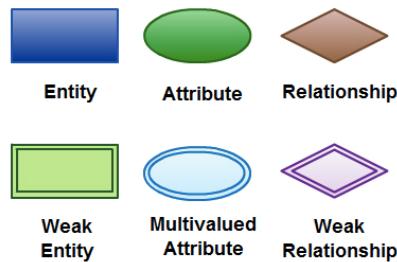
For example, an inventory software used in a retail shop will have a database that monitors elements such as purchases, item, item type, item source and item price. Rendering this information through an ER diagram would be something like this:



ER diagram example with entity having attributes

In the diagram, the information inside the oval shapes are attributes of a particular entity.

ER Diagram Symbols and Notations



Elements in ER diagrams

There are three basic elements in an ER Diagram: entity, attribute, relationship. There are more elements which are based on the main elements. They are weak entity, multi valued attribute, derived attribute, weak relationship, and recursive relationship. Cardinality and ordinality are two other notations used in ER diagrams to further define relationships.

Entity

An entity can be a person, place, event, or object that is relevant to a given system. For example, a school system may include students, teachers, major courses, subjects, fees, and other items. Entities are represented in ER diagrams by a rectangle and named using singular nouns.

Weak Entity

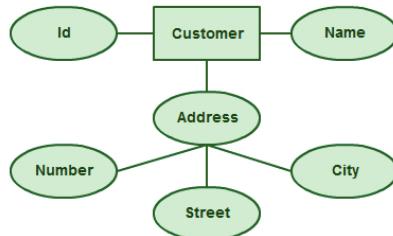
A weak entity is an entity that depends on the existence of another entity. In more technical terms it can be defined as an entity that cannot be identified by its own attributes. It uses a foreign key combined with its attributes to form the primary key. An entity like order item is a good example for this. The order item will be meaningless without an order so it depends on the existence of the order.



Weak Entity Example in ER diagrams

Attribute

An attribute is a property, trait, or characteristic of an entity, relationship, or another attribute. For example, the attribute Inventory Item Name is an attribute of the entity Inventory Item. An entity can have as many attributes as necessary. Meanwhile, attributes can also have their own specific attributes. For example, the attribute "customer address" can have the attributes number, street, city, and state. These are called composite attributes. Note that some top level ER diagrams do not show attributes for the sake of simplicity. In those that do, however, attributes are represented by oval shapes.



Attributes in ER diagrams, Note that an attribute can have its own attributes (composite attribute)

Multivalued Attribute

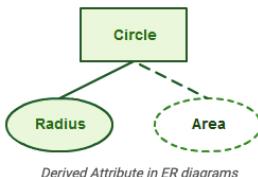
If an attribute can have more than one value it is called a multi-valued attribute. It is important to note that this is different from an attribute having its own attributes. For example, a teacher entity can have multiple subject values.



Example of a multivalued attribute

Derived Attribute

An attribute based on another attribute. This is found rarely in ER diagrams. For example, for a circle, the area can be derived from the radius.



Derived Attribute in ER diagrams

Relationship

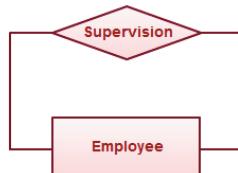
A relationship describes how entities interact. For example, the entity "Carpenter" may be related to the entity "table" by the relationship "builds" or "makes". Relationships are represented by diamond shapes and are labeled using verbs.



Using Relationships in Entity Relationship Diagrams

Recursive Relationship

If the same entity participates more than once in a relationship it is known as a recursive relationship. In the below example an employee can be a supervisor and be supervised, so there is a recursive relationship.



Example of a recursive relationship in ER diagrams

Cardinality and Ordinality

These two further defines relationships between entities by placing the relationship in the context of numbers. In an email system, for example, one account can have multiple contacts. The relationship, in this case, follows a "one to many" model. There are a number of notations used to present cardinality in ER diagrams. Chen, UML, Crow's foot, Bachman are some of the popular notations. [Creately](#) supports Chen, UML and Crow's foot notations. The following example uses UML to show cardinality.



Cardinality in ER diagrams using UML notation

How to Draw ER Diagrams

Below points show how to go about creating an ER diagram.

1. **Identify all the entities** in the system. An entity should appear only once in a particular diagram. Create rectangles for all entities and name them properly.
2. **Identify relationships** between entities. Connect them using a line and add a diamond in the middle describing the relationship.
3. **Add attributes** for entities. Give meaningful attribute names so they can be understood easily.

Sounds simple right? In a complex system, it can be a nightmare to identify relationships. This is something you'll perfect only with practice.

ER Diagram Best Practices

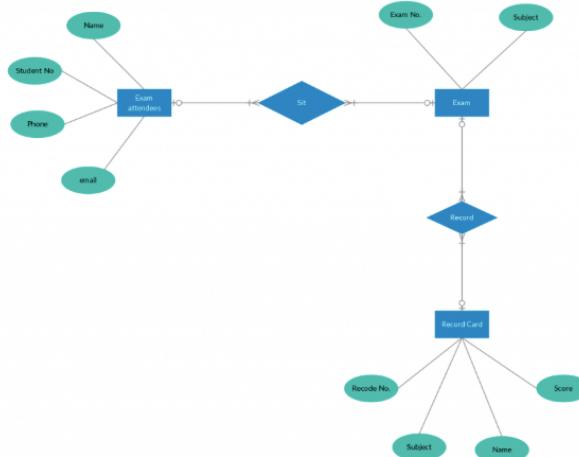
1. Provide a precise and appropriate name for each entity, attribute, and relationship in the diagram. Terms that are simple and familiar always beats vague, technical-sounding words. In naming entities, remember to use singular nouns. However, adjectives may be used to distinguish entities belonging to the same class (part-time employee and full-time employee, for example). Meanwhile attribute names must be meaningful, unique, system-independent, and easily understandable.
2. Remove vague, redundant or unnecessary relationships between entities.
3. Never connect a relationship to another relationship.
4. Make effective use of colors. You can use colors to classify similar entities or to highlight key areas in your diagrams.

Drawing ER Diagrams Using Creately

You can draw entity relationship diagrams manually, especially when you are just informally showing simple systems to your peers. However, for more complex systems and for external audiences, you need diagramming software such as Creately's to craft visually engaging and precise ER diagrams. The [ER diagram software](#) offered by Creately as an online service is pretty easy to use and is a lot more affordable than purchasing licensed software. It is also perfectly suited for development teams because of its strong support for collaboration.

ER Diagram Templates

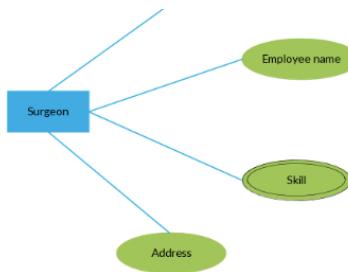
Below are some ER diagram templates so you can get started quickly. Clicking on the image and in the new page that opens click the "Use as Template" button. For more templates check our [ER diagram templates section](#).



ER Diagram Template of exam database (Click on the image to use as template)

A basic ER diagram template for a quick start





Basic ER Diagram template (Click to use as template)

Benefits of ER diagrams

ER diagrams constitute a very useful framework for creating and manipulating databases. First, ER diagrams are easy to understand and do not require a person to undergo extensive training to be able to work with it efficiently and accurately. This means that designers can use ER diagrams to easily communicate with developers, customers, and end users, regardless of their IT proficiency. Second, ER diagrams are readily translatable into relational tables which can be used to quickly build databases. In addition, ER diagrams can directly be used by database developers as the blueprint for implementing data in specific software applications. Lastly, ER diagrams may be applied in other contexts such as describing the different relationships and operations within an organization.

Feedback on ER Diagram Tutorial

I've done my best to cover all you need to know about ER diagrams. If you think I've missed some part make sure to mention that in the comments sections. It's a good place to ask questions too. If a question is asked frequently I will add it to the frequently asked questions section.

References

1. [Entity-relationship model as published on Wikipedia](#).
2. [Entity Relationship Diagram by Mike Chapple as published on the About.com website](#)
3. [Entity-Relationship Modelling by Craig Borysowich as published on the Toolbox.com website](#)

 Entity relationship diagrams |  ER diagram symbols |  ER diagram tutorial |  ER diagrams

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More related articles



Author

Nishadha

Software engineer turned tech evangelist. I handle marketing stuff here at Creately including writing blog posts and handling social media accounts. In my spare time I love to read and travel. Check out my personal blog [Rumbling Lankan](#) where I write about online marketing stuff.

[View all posts by Nishadha →](#)

Comments

haynes christian

i want to know the rules of aggregation, specialization and generalization

11.09.2018 - reply

Vish

Very nice detailed description except for the cardinality part. If that can also be elaborated a little, then it can be the best place to learn ERDs.

03.10.2017 - reply

Niraj

If I have big er diagram which can not plot in one page what should I have to do??

12.01.2017 - reply

Amanda

Hi Niraj, when publishing large diagrams, you can use the Creately viewer to do so. You can get the diagram embed code via the Publish tab. For more information refer <https://creately.com/blog/creately/the-new-creately-viewer/>

09.10.2017 - reply

Priscilla

this explanation is very good and fairly easy to understand. I might have to review Cardinality and Ordinality once or twice more but the rest was very concise and clear. Thank you.

19.10.2016 - reply

King Ateenyi

Indeed best explanation

31.01.2018 - reply

Lakna Madurani

it is very important to me.....tnx

03.09.2016 - reply

Amith Nischal

Hi Nishadha,

Explanation is so good and easily understandable. I have some doubts. I've taken a DBMS-I course in my Master's and my professor taught me ERD differently. For relationships he used triangle, not a diamond. In cardinality he didn't use UML, Chen or Crow's foot notations. He used some thing different, like Thick lines, thin lines, one-sided arrows etc. Could you help me to figure out what notations are those and also I am curious enough to know which notation is used widely. Please help me with this.

Thanks.

21.08.2016 - reply

Yusuph Khamis

Nice explanation....simple and understandable
Yusuph Khamis Pius from TANZANIA

11.05.2016 - reply

Leonard Wartovo

Thank you. This is understandable!

13.02.2016 - reply

Amad

Really very nice & helpful article. this is really nice diagrams tutorial you did good job Thank you

05.06.2015 - reply

Ali Ahmadi

Very very Nice tutorial Thank you Very Much.
I'd a Question: Which kind of Attribute is the Date?

26.05.2015 - reply

sudhansu

*****very nice *****thank you*****

09.05.2015 - reply

Priyanka

It's Really Useful thank you..

06.05.2015 - reply

Angela Vaughn

This was a great explanation of ERD. I'm currently taking a class a database concepts class at University of Phoenix. The details describe here was clear, and will help me with my assignments. Thank you! 😊

23.03.2015 - reply

Asvitha

Got satisfied with what is needed.Thank you.

03.03.2015 - reply

Deepika

very nice!!!! esay to understand.Really nice article.Thanks!!!! keep doing this it will be very helpfull.....

21.01.2015 - reply

Faizal

Thanks sir for your share. alhamdulillah ur explaination just simple n great. A week on understanding the lecturer but still blurjuz read your in 5 min the thing be cleared

13.12.2014 - reply

sushma

A unique blog as your name ... Very simple and easy.. relevant examples !! keep up the good work

10.10.2014 - reply

Dzinaishe

Best explanation of E R Diagrams i have met so far. Good job Nishada

02.09.2014 - reply

Nishadha

Thanks Dzinaishe. Glad you like it. Feel free to tweet and share it across social networks.

02.09.2014 - reply

Sheela

Thanks for the post. Very good explanation. Good color highlights to explain the diagrams.

25.08.2014 - reply

Nishadha

Thanks Sheela, Glad you enjoyed it.

26.08.2014 - reply

Samarjeet

Great learning. Keep up the good work

21.08.2014 - reply

vlc

Never seen this notation before... everything looks like 1:1 ... mixes attribute relations, entity relations, and verbs. Anyway.. at least it is a notation.

12.08.2014 - reply

Umair

exellent explanation for ER diagram.....

25.06.2014 - reply

khilji

if this is ERD then what will be DFD
just check r u talking about ERD or DFD

11.06.2014 - reply

Dimitar

A gud tut.....big up.....From Kenya

20.05.2014 - reply

Mustafa

Good definition,that a ER diagram may has.

13.05.2014 - reply

Kacharagadla

It is really ultimate explanation. Thanks to creately.com team.

10.05.2014 - reply

Gagan

Thank you sooo much for this blog. It really helps me a lot to create ER Diagram for my project. Well Explained 😊

08.05.2014 - reply

Amritpal

Awesome guide for ERD, i understand a lot of about creating a good erds in half hour.
appreciated from heart.

08.05.2014 - reply

shayankhan

here we gain lots of info thank dude by making this such type of articlesreally appreciated

24.04.2014 - reply

zulekha khan

Well explained.... So help full....

14.04.2014 - reply

musa

thanks a lot Nishada, I benefited a lot from your staff. May God reachly bless you. Amen

11.04.2014 - reply

Haritha

Many readers will be benefiting from your blog. Thanks for listing the ERP Diagrams which is necessary software for businesses. Thanks for sharing such a useful diagrams list..

09.04.2014 - reply

tkmd

i am a teacher trainee of ict thank you v,much

08.04.2014 - reply

Abraham Dinakaran

Good . I need learning materials on UML. stuffs for handling and guiding projects for students

08.04.2014 - reply

usha

A Supplier located in only one city supplies various parts for the project to different companies located in various cities.
Draw the "E-R" for the supplier and parts database.

can i get the ER diagram for this

20.03.2014 - reply

sejal khunt

hi i am student of b.c.a 6th sem..i can't draw ER diagram for my project website.in my project i have 4 database tables so,
how i creat ER diagram

14.03.2014 - reply

pakistani

bhenchod indian kutte da buttar

05.03.2014 - reply

leila

thank you...verry well...leila from iran

03.03.2014 - reply

RAM GITE

VERY NICE THIS EXPLAINATION , I LIKE ITS SIMPLE SOLUTION THANK U

04.02.2014 - reply

Nana parkhe

The author explained the ER model in a simple & understandable language.

28.01.2014 - reply

prakash

Thank you so much sir.. Its very usefull for me...

23.01.2014 - reply

Isuru Prasad

Dear sir thank you for this. today is my exam. i did not knw anything about ER diagram. i guess i can write nicely for exam to. thank u again

22.01.2014 - reply

jessy

thank you so much for the information...

20.01.2014 - reply

Swapnil

Very descriptive and useful article. Helped me for my SE project.

15.01.2014 - reply

Neha

Can someone please explain all the notations used in er diagram?

13.01.2014 - reply

anony

really helpfull thanks! 😊

04.01.2014 - reply

Jamal

What about the tables in a database which are not interrelated? How to show ER diagram of a complete database with few related tables and few other non-related tables. It's not necessary that each and every table in a database is interrelated.

24.12.2013 - reply

Haroon

It is good to understand!

17.12.2013 - reply

manal nazeer

I am impressed how easily he described erd and relatons easily..god bless you

27.11.2013 - reply

Hosein

Hi

I want draw a ERD of website news?

25.11.2013 - reply

raphael lenarisiolo

Good explanation for ER-Diagrams,it really helped me in my examination.

21.11.2013 - reply

ritu jain

we cannot get a proper charts so elaborate these site more

14.11.2013 - reply

shereenzaman

Good example of ERD

07.11.2013 - reply

Jaison

good .u can also draw the attributes from the entity table as a little balloon , on top of the balloon u can write the entity names.

07.11.2013 - reply

DANCAN

very very nice article. really helped me out... .

30.10.2013 - reply

saroj dongol

Great Tutorial... Love it

25.10.2013 - reply

Virtue

the most good and easy to understand explanation,thank you....

23.10.2013 - reply

SR Sharma

good explaination and its very useful
thanx

20.10.2013 - reply

Frances

Thank you so much. Your explanation made my module easy for me 😊

19.10.2013 - reply

ANAND

its very good n very easy to understand

07.10.2013 - reply

asghar khan

thanxs...very simple and easy to understand....

01.10.2013 - reply

Prashant

You can add relationship sets between two entities after you are done making entity sets right ?

09.09.2013 - reply

Sijovw

Thanks dear. but i also need to know about the 'arrow headed line' and 'double lines' . Can we use arrow heads in ER diagrams? If it is, then how?

31.08.2013 - reply

Chow

Very clearly explained 😊

27.08.2013 - reply

pavi

this is very useful for the students 😊

16.08.2013 - reply

Nupur

CooooOl.. TotAllY RoCKs'..

04.08.2013 - reply

suthakaran gopal

Best explanation for beginners !

02.08.2013 - reply

Zaharaddeen Elhassan

thanks , excellent explanation, simple English and easy to understand

26.07.2013 - reply

radhika

good description for ER diagrams...

14.07.2013 - reply

getinet

add more related example but the other thing is good i think

20.06.2013 - reply

Rohan Nagpal

I required this for my dbms exam in the morning. This article is so well explained enough for a one legged man to run a marathon. Thank you dear editor.

12.06.2013 - reply

Sandeep Patel

hello

what we can show relationship of PK and FK using ER Diagram..???

13.05.2013 - reply

Rajiv

Thanks for such a nice explanation\

04.05.2013 - reply

thyagaraj

Im new to dbms....i got help from ur article,,,thanku so much

04.05.2013 - reply

draherbal

with a diagram can be seen apparently from one component to the other components of related this way will be easier for people to understand the meaning

04.05.2013 - reply

deepak

Thanks. My concept is clear from it.

03.05.2013 - reply

sekate mubaraka

exact requests have been provided best arrangement of databases

29.04.2013 - reply

raunak arora

best definition and example

25.04.2013 - reply

Shaik Imran

nice... Insha allah it may help me in designing ERD for my project...

18.04.2013 - reply

Mutahir NAsir

Very Nice Answer and m really satisfied from it and also my concept is clear from it .

16.04.2013 - reply

Zahida Laghari

nicelly defined , i want to make ER diagram for press club. I have some confusions but after visit this website i have believe Insha Allah i will make easily.

05.04.2013 - reply

Eugene Alza

Its soo hard and I am thinking deeply in my project Callisto Grocer Store. I dont know what is the flow of this grocery store

23.03.2013 - reply

ALEX O.

you're a genius,i cherished you.

05.03.2013 - reply

ASHISH KUMAR

its an amazing ans ,and i am so satisfied with this ans

24.02.2013 - reply

Tharindu

Good Learning Web Site

09.02.2013 - reply

ammar

nice, and very helpful for our subejct in database management system.....

06.02.2013 - reply

Sengottuvel S

thanks dude very usefull for me.....

03.02.2013 - reply

sugan

simply superb n easy.....

thank u....

27.01.2013 - reply

parkash

Nice..... thank u.....

13.01.2013 - reply

Nishadha

Hi Sachin,

Relationships can have their own attributes as well.

07.01.2013 - reply

Sachin

I have still confusion on creating a relationship between two entities, does relationship block have also attributes of its own please help me with this.

-- -- -- -- -

05.07.2013 - reply

Lahirur

Thanks.....really good for beginners. it is very good if you can add some solved question regarding ER diagrams..... 😊

30.12.2012 - reply

Nishadha

Hi Lahirur,
We'll try to add some example questions in the future.

01.01.2013 - reply

Latyfa

Simple, clear, easy.
Thank you so much, that was really helpful.

23.12.2012 - reply

kandyjet

very nice explanation. Thank you for the time.

23.12.2012 - reply

dinesh92

i have some five problem like this can u help?
1.Cargo Tracking Management System
2.Supermarket Sales and Inventory Control System
3.Emergency Call Management System
4.Job Management System

I want to what are the entities of these problems?

15.12.2012 - reply

Rudresh DN

Its really good. Understanding the basic concepts of ER diagram with simple language with very good examples. It is easy to for us to know the contents. Thank You Sir.

13.12.2012 - reply

TAPAS

thanks,very good explanation for all.

13.12.2012 - reply

MULUKEN ASHAGRIE

I HAVE GOTE A GOOD HELP.THANK U!

11.12.2012 - reply

brunswick

hey, brow.. nice job.. thanks for this.. it gave us so much help.. thanks brow..

11.12.2012 - reply

Tushar

what exactly connector image in entity relationship diagram????

05.12.2012 - reply

nishath

Examples are very simple and useful to understand ER Diagram.But if you take a simple problem statement and explain how to identify entity,relationships etc... it would be more helpful to understand.

04.12.2012 - reply

Inder

Draw ER diagram for the following "A teacher can teach many courses. A student can enrol in many courses. A course may be a part of one or many programmes. A teacher can be mentor of many students, however a student can have only one mentor."

Can you answer above Q Please

30.11.2012 - reply

Dart Vader

Inder, I know I'm replying quite late, but tell me if the correct answer is what I thought: to put every relation as 1..n, with one exception: the teacher/student relation. Here I put 1 in the Teacher side and 1..n in the student's side. Is it correct? Thanks!

22.10.2015 - reply

Just wassam

we have teacher , students,course ,programmes as entities . first of all, the relationship among teacher and courses are (teach) and it should be many to one due a teacher can teach many course but the course should take by one teacher. the second relationship between student and course is (Enrol in) beacuse and it should be one to many. the third relationship is course and programmes . im so tired hhhhhh to write buisht

18.09.2016 - reply

Qaiser

the best website..!

28.11.2012 - reply

glen

thanks a lot..nicely written...

28.11.2012 - reply

BWIRE SEDRICK

THIS IS VERY RELEVANT FOR MY SAAD PAPER EXAM

24.11.2012 - reply

prasanna

actually,this is good stuff...thanks lots...

24.11.2012 - reply

Sofyan Gustaf

Very useful
Explanation is very clear

19.11.2012 - reply

Aditya Bhowmick

Thank you sir ,I don't know how to create a ERD, but now I clear this.

08.11.2012 - reply

shiv govind patel

Thanks for sharing , it is very useful for database designing.

07.11.2012 - reply

nikhil

cleared my most of the doubts , thank you 😊

30.10.2012 - reply

kavi

vry clear explanation

20.10.2012 - reply

M.RAMAR

i want a relationship between er diagram and uml diagram

13.10.2012 - reply

Giedre

Hi, I have to do an ER model for a travel game app but we have not been shown how in college. Can anyone please give me

some ideas on how to go about this.

The player or multiple players are required to navigate their way to the objective location using the transport infrastructure in a city or area, the games A.I places them in. The maps will be updated on a frequent basis to add variety to the user's experience.

Thanks

09.10.2012 - reply

benzie

superb examples of ERD

02.10.2012 - reply

benzie

A very clear explanation of ERD with the aid of diagrams.thanx.

02.10.2012 - reply

asad

best example of ERD

29.09.2012 - reply

sheha

Thank u ,this was very big help for us....

19.09.2012 - reply

suman

gud explanation...

18.09.2012 - reply

Aseem

A lucid and elaborate explanation. Appreciable.

17.09.2012 - reply

Vik

Very to the point and clear explanation. Good read to refresh the concepts just in few minutes. Thanks.

15.08.2012 - reply

Ashish Garg

Its interesting... Nice presentation.... Thnx

08.08.2012 - reply

gopika

this is very useful for us. so easy to understand.

05.08.2012 - reply

ratul

thanx a Lot....

02.07.2012 - reply

utpal swain

i cleared much of my concept and doubts.....thanks

28.06.2012 - reply

Angel

very nice simple and attractive explanations.

11.06.2012 - reply

Naresh

Ya its very good explanation about ER-Diagrams

01.06.2012 - reply

minie

Jus wrote my Database exam, wish id seen this much earlier.

28.05.2012 - reply

maina

i need a ISA relationship with some example

22.05.2012 - reply

Ankit Doshi

I am an Engineering Student and needed this for my exams.
I can now surely bet on it that I can crack any ER-Diagram

Thanks to author.

20.05.2012 - reply

jasdeep

i need help for er diagram if you will

04.05.2017 - reply

Pradeep Alahakoon

Information in this site are very usefull.tankx v m.

16.05.2012 - reply

Nadee Wickramasinghe

A very good explanation for ER diagrams.

09.05.2012 - reply

MalcolmT

The model that you espouse (attributes in ovoids, aka 'the lollipop model') is OK for small systems with very limited number of attributes per entity. Unfortunately, some students try to use it for larger assignments (20 entities with up to 20 attributes per entity) and the whole model becomes unreadable unless they use A2-sized paper. If I never see another model of this type, it will too soon!!

18.04.2012 - reply

tanvir

best sites for erd diagram. can any one tell me the date of the artical posted??

29.03.2012 - reply

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Your name *

Your email *

Please enter an answer in digits:

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