

RDBMS concepts

Data modelling

Assignment #1

Data models

Write a detailed notes on the following data models:

1. Hierarchical data model
 2. Network data model
 3. Relational data model
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Assignment #2

ER diagram symbols

Explain the notations used for various aspects of an entity relationship modelling. Give proper examples covering all notations.

Assignment #3

ER Diagrams

"Blu Yu" is a new brand of mobile phones and accessories. The company wants to set up a web and mobile application to showcase and sell their products. In this regard, you are to create the required database tables. There are several products in a few categories.

The categories are:

- Smartphones
- Wifi devices
- Bands
- Power banks
- Headphones
- VR Players
- Charging accessories
- Bluetooth speakers ... and more categories to come in the future. In each category, there may be one or more products. In order to showcase all these products, there may be one or more pictures (3 to 5) for each of the products.

The application allows customers to browse, choose and buy products. A customer may place an order, which consists of one or more products of varying quantity. Occasionally, the company releases coupon codes, against which the customer may get good

discounts. The coupon code is entered by the customer during the checkout process. The customers optionally re-visit the application to review the product they may have used and give rating and feedback on the same.

Identify the various entities, attributes and the relationships between entities from the above case study. Create proper ER diagrams representing the same.

*Note: Please write your answers in a plain paper, take pictures of the same using your smartphone, convert them into a PDF document (using Adobe Scan mobile app) and upload the same into the shared drive. **Alternatively, you may use MS Word or MS Powerpoint to create the solution and convert the same into PDF format.** There is a folder for submission of assignments (DBMS --> Assignment_Submissions --> Day1). Name your file in the format EMPNO_FIRSTNAME_LASTNAME.pdf (eg. 9876_VINOD_KUMAR.pdf).*