

# Fundamentals of Database Systems | (5th Edition)

## Step-by-step solution

### Step 1 of 2

The difference between a two-tire architecture and a three tire architecture is that of a layers through which data and queries pass at time of processing, for any database.

In two tire architecture there is two layers viz., Client layer (user interface) and query server or transaction server. Application programs run on client side and when data processing is required connection is established with the server (DBMS), where data is stored. Once connection is established, transaction and query requests are sent using Open Database Connectivity's API's, which are then processed at server side. It may also happen that client side takes care of user interaction and query processing while server stores data, manages disks etc. Exact distribution of functionality differs but two - tire architecture has two layers.

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### Step 2 of 2

In three- tire architecture there are three layers, and a new application or web layer is between client and database service layer. The idea behind three tire architecture is to partition roles in different layers and each layer has specific task. In three-tire architecture, user layer or client layer provide user interface from where user can run query. Query gets processes at application or web server layer. This layer also checks for any business constraints that may be imposed on type of query user can send or verify credentials of user so has verify access permissions that user has. This layer can also be called as Business logic layer. Finally Database server manages storage of data in the system.

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### Chapter 2, Solution 7RQ

User friendly interfaces provided by the DBMS are as follows: (a) Menu-Based interfaces: • These interfaces contain the lists of options through which the user can send the request. • Pull-down menus are a very popular technique in...

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