

University of Sahiwal, Sahiwal
Department of Computer Science
Assignment No. 1

Program: BSCS (Morning)
Semester: 4th
Session: 2018-2022
Course Name: Database
Course Code: CS-206
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Q.No.1: Define DFD for a restaurant along with its components. Also draw a DFD for a restaurant food ordering system.

Restaurant Management System Data flow diagram

It is often used as an introductory step to create an overview of the Restaurant without going into great detail, which can later be elaborated. It normally, consists of overall application dataflow and processes of the Restaurant process. It contains all of the user flow and their entities such as all the flow of Restaurant, Employees, Items, Sells, Payments, Orders, Item Category. All of the below diagrams have been used for the visualization of data processing and structured design of the Restaurant process and working flow.

Components of DFD for Restaurant

- **Zero Level Data Flow Diagram Restaurant Management System**
- **First Level Data Flow Diagram Restaurant Management System**
- **Second Level Data Flow Diagram Restaurant Management System**

- **Zero Level Data Flow Diagram**

This is the Zero Level DFD of Restaurant Management System, where we have elaborated the high level process of Restaurant. It's a basic overview of the whole Restaurant Management System or process being analyzed or modeled. It's designed to be an at-a-glance view of Payments, Orders and

Item Category showing the system as a single high-level process, with its relationship to external entities of Restaurant, Employees and Items. It should be easily understood by a wide audience, including Restaurant, Items and Payments In zero level DFD of Restaurant Management System, and we have described the high level flow of the Restaurant system.

- **First Level Data Flow Diagram**

First Level DFD (1st Level) of Restaurant Management System shows how the system is divided into

sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the Restaurant Management System as a whole. It also identifies internal data stores of Item Category, Orders, Payments, Sells, Items that must be present in order for the Restaurant system to do its job, and shows the flow of data between the various parts of Restaurant, Items, Orders, Item Category, and Payments of the system. DFD Level 1 provides a more detailed breakout of pieces of the 1st level DFD. You will highlight the main functionalities of Restaurant.

- **Second Level Data Flow Diagram**

DFD Level 2 then goes one step deeper into parts of Level

1 of Restaurant. It may require more functionalities of Restaurant to reach the necessary level of detail about the Restaurant functioning. First Level DFD (1st Level) of Restaurant Management System shows how the system is divided into sub-systems (processes). The 2nd Level DFD contains more details of Item Category, Orders, Payments, Sells, Items, Employees, Restaurant

DFD for a restaurant food ordering system

1 LEVEL DIAGRAM





