

MANAGEMENT DEVELOPMENT PROGRAMME

on

Database Programme Management and Evaluation

June 15 - 19, 2009



Designed for:

**Doctors, Paramedics, Managers, Technologists,
Engineers, Academicians, Researchers, Health
Professionals & Students.**



Organised by:

IIHMR

INTERNATIONAL INSTITUTE OF HEALTH
MANAGEMENT RESEARCH, NEW DELHI
www.iihmr.edu.in

About the Organisers

International Institute of Health Management Research (IIHMR), New Delhi is an Institution dedicated to improvement in standards of health through better management of health care and related programmes. It seeks to accomplish this through management research, training, consultation and institutional networking in a national and global perspective.

In the context of rapid technological, managerial and environmental changes, it is imperative that practicing healthcare professionals continuously update their knowledge base, acquire and upgrade leadership skills to deal with the fast growing obsolescence through continuing education. IIHMR's Management Development Programmes are designed to face the technological challenges and help the professionals in broadening their understanding and improving the skill set to deliver their services effectively and efficiently. IIHMR programmes have been planned for health professionals who are involved in health planning, health financing, managing and generating health resources and those who work for ministries of health, government agencies, planning agencies, implementing agencies, public health institutions, non governmental organizations and voluntary agencies.

Course Objective

Introduction to the use and operating principles of database management systems. Semantic modeling; query languages; relational calculus and algebra as applied to the database design, implementation, and access. Hands-on experience in accessing information using a query language.

Specific Description

This course provides an introduction to database systems including database querying, design, and programming. The course consists of three major components. The first component explains databases from a user perspective including how to query using SQL, relational algebra, and other query languages. The second component involves designing relational databases using Entity-Relationship (ER) diagrams and other modeling languages. The last part involves data retrieval and studying the pattern through Datamining tools like XL Minor. Students completing the course have experience with current database technologies, and the ability to use and develop databases and associated applications.

Software Packages

Advanced Database Packages on Oracle 9i/11g would be used.

Datamining Packages on XL Minor would be used to impart training.

Participants Registered under Fellowship from WHO

Education, Training & Support (ETS) Unit WHO/SEARO has sponsored 6 fellows participating from Nepal for the programme.



Course Outline

Day 1, 15 June

- Importance of data management
- Introduction to databases
- Database Architecture
- Functioning of database

Day 2, 16 June

- ER Modeling
- ER examples and questions
- Database Design General Approach
- Relational Model - Schemas, Keys, Constraints, Integrity
- Relational Algebra - Select, Project, Set Operations
- Relational Algebra Cartesian product, Joins
- Relational Algebra Outer joins, Division operator, Practice Questions

Day 3, 17 June

- Relational Design - Functional Dependencies and Normalization
- Relational Design (cont.) 1NF, 2NF, 3NF, BCNF, 4NF, 5NF
- SQL DDL Create table, constraints, create indexes, Insert/Delete/Update
- SQL - Simple Queries, LIKE operator, Set Operations, Order By
- SQL - Group By, Aggregate Functions
- SQL - Subqueries, Outer joins

Day 4, 18 June

- Database and Web Programming JDBC, ODBC
- Database and Web Programming Web servers/databases, JSP/servlets
- Bio-Statistics
- Field visit to Multi Specialty Artemis Hospital, Gurgaon (Recipient of E-health award for "Best ICT enabled hospital of the year 2008").

Day 5, 19 June

- Advanced SQL DDL Triggers, Views, and Security
- Introduction to Data warehousing and Data Mining
- Database System Implementation Storage, Transactions, Concurrency, Recovery

Certification

IIHMR "Certificate" will be awarded upon successful completion of the programme.

Resource Team

- Prof. Indrajit Bhattacharya at IIHMR, New Delhi is B.Tech (Electronics & Communication) and MBA (HRD & IT systems). He is a Fellow of Institute of Electronics and Telecommunication Engineers, life member of Computer Society of India and Member of Indian Association for Medical Informatics (IAMI). In the area of healthcare he has worked with industry leaders such as Siemens, Wipro-GE in the fields of Medical Engineering and in the area of IT he has served as Additional Director at DOEACC Society under Department of Information Technology, Govt. of India.
- Dr. Sandeep Bhalla, MD and DNB in Public Health and Post Graduate Diploma in Preventive and Promotive Health Care from Apollo Hospital Hyderabad. He has published several research papers and articles in international and national Journals and presented papers in various conferences. He has compiled database of HIV/AIDS /STI research studies of India (6000) which is available in two volumes of books, CD and online.
- Ms. Debjani is B.Sc., B. Tech, M. Tech in Information Technology and has been a researcher at IIT, Delhi. She is faculty at Software Technology Group (STG), Amity University, Apeejay Management School and host of leading institutions in the NCR of Delhi.
- Ms. Monica Arora, MCA, Assistant Professor, Apeejay School of Management, Head of Department, Information System.

Fees for Indian Participants

Rs. 12,500/- (Non-residential)
Rs. 17,500/- (Twin share accommodation)
Rs. 20,000/- (Single room accommodation)

Fees for International Participants

US\$ 550 (Non-residential)
US\$ 650 (Twin share accommodation)
US\$ 700 (Single room accommodation)

The programme fee will cover:

- Tuition fee
- Course study material
- Boarding and lodging
- Field Visit
- Local hospitality at IIHMR, New Delhi

Fifth delegate will be charged free if there are five delegates from one agency.

Last date of registration is 1 June, 2009 (Limited seats under first come first serve basis)

Note:

- Residential implies boarding & lodging air-conditioned accommodation with attached bath.
- Cheque/DD to be issued in favour of "International Institute of Health Management Research" payable at New Delhi"
- Programme subject to cancellation due to unavoidable circumstances.
- Course fee does not include the travel cost to & from Delhi and other personal expenditure.

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Some of the distinguished participants of the previous programmes



Dr. Uditaneja
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Md. Dawar Hakimi
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International Committee of the Red Cross
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Dr. Pragya Sharma
State Programme Officer III
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Dr. Vijay Rai
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K. MALE
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Dr. Vallabhaneni Kalyan Chakravarthy
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Dr. Pinnamaneni Siddhartha Institute of
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Dr. B S Parmar
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Dr. Quazi Syed Zahiruddin
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Ms. Neha Jagatdeb
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