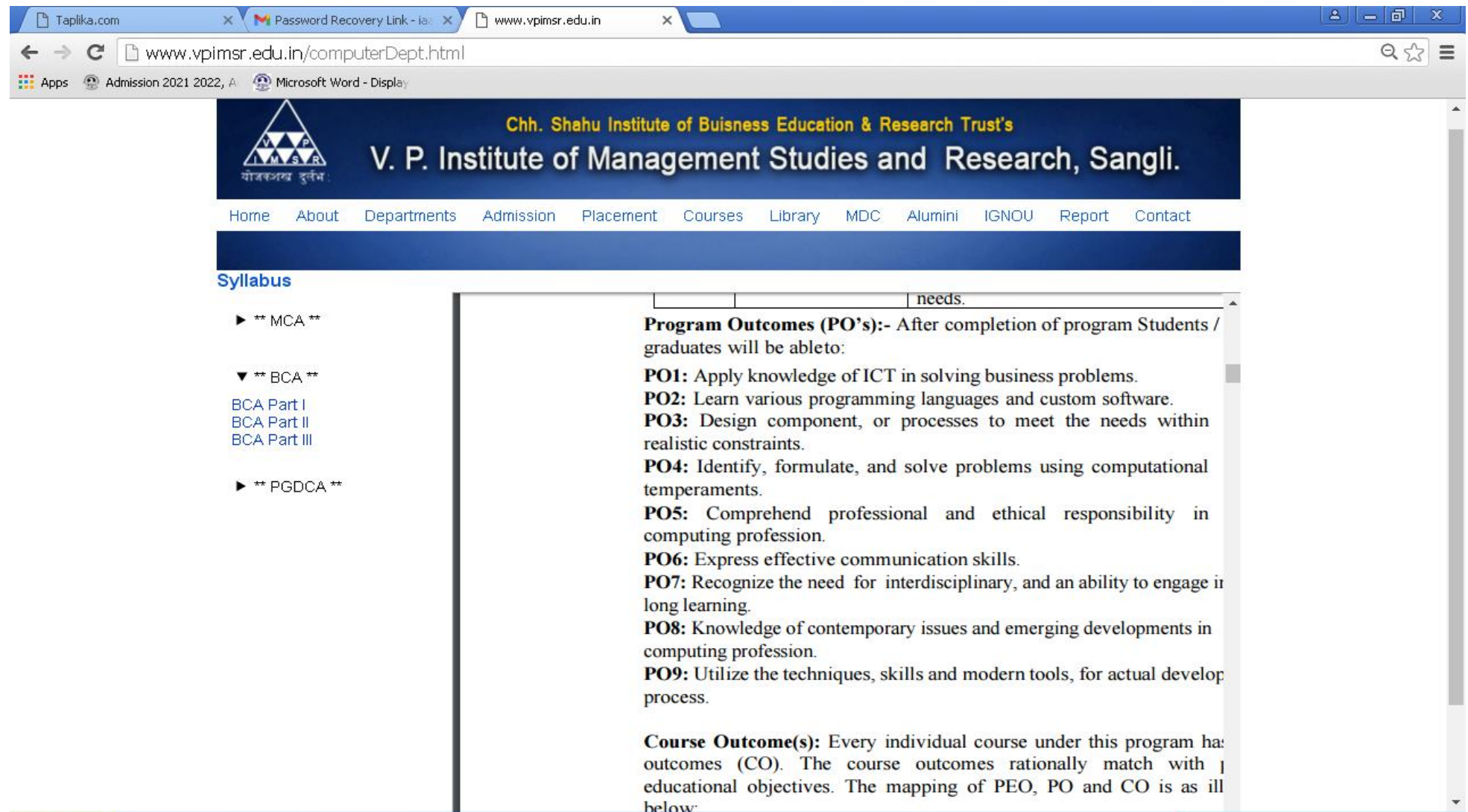


The university curriculum of each program is displayed on the institute's website along with the program and course outcomes.



The screenshot shows a web browser window with the URL www.vpimsr.edu.in/computerDept.html. The website header includes the institute's name, "Chh. Shahu Institute of Business Education & Research Trust's V. P. Institute of Management Studies and Research, Sangli," and a navigation menu with links: Home, About, Departments, Admission, Placement, Courses, Library, MDC, Alumni, IGNOU, Report, and Contact.

The main content area is titled "Syllabus" and lists three programs: MCA, BCA, and PGDCA. The BCA program is expanded, showing its parts: BCA Part I, BCA Part II, and BCA Part III. The PGDCA program is also listed.

The syllabus content for the BCA program is as follows:

Program	Outcomes
MCA	Program Outcomes (PO's):- After completion of program Students / graduates will be able to:
BCA	<p>PO1: Apply knowledge of ICT in solving business problems.</p> <p>PO2: Learn various programming languages and custom software.</p> <p>PO3: Design component, or processes to meet the needs within realistic constraints.</p> <p>PO4: Identify, formulate, and solve problems using computational temperaments.</p> <p>PO5: Comprehend professional and ethical responsibility in computing profession.</p> <p>PO6: Express effective communication skills.</p> <p>PO7: Recognize the need for interdisciplinary, and an ability to engage in long learning.</p> <p>PO8: Knowledge of contemporary issues and emerging developments in computing profession.</p> <p>PO9: Utilize the techniques, skills and modern tools, for actual develop process.</p> <p>Course Outcome(s): Every individual course under this program has outcomes (CO). The course outcomes rationally match with educational objectives. The mapping of PEO, PO and CO is as ill below</p>



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V.P. Institute of Management
Studies & Research, Wanlesswadi, Sangli

RDBMS Using Oracle

Home ► Courses ► PGDCA 2020 ► Sem-I ► RDBMS

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RDBMS Using Oracle



About the Teacher:

Name: Mrs. A. R. Rasal

Qualification: BCS,M.Sc. Computer Science, MCA, SET in Computer Science and Applications

Teaching experience: 11 years

Area of Interest: Programming subjects

Subjects taught : C, C++, RDBMS with Oracle, Internet Programming,
Data & file Structures through C++, Operating Systems,
Enterprise Resource Planning, Computer Networks,
Software Engineering, Computer Fundamentals,
Data mining, Java Programming, Web Technologies (PHP)

Course Objectives:

After you will completed this course you should be able to understand the importance of database, basic concepts of database, Concurrency control & recovery techniques, RDBMS concepts, SQL, Sub queries and Join, PL/SQL Blocks ,Cursors & Triggers, Forms, Menus & Reports



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✚ RDBMS PPT's


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✚ Practical Assignments 49.5KB Word document



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- 
[Oracle Lab 3](#)  204.9KB PDF document Edit ▾







Based on group by clause with having, rollup and cube operators, oracle table dual

- 
[Oracle lab 4](#)  14.9KB Word document Edit ▾

Based on foreign key (referential key constraint), order by clause, aggregate functions

- 
[Oracle Lab 5](#)  317.7KB PDF document Edit ▾

Based on join and set operations

- 
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- 
[View And Alter Table Demo](#)  7.6KB Text file Edit ▾

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Topic 1



Basic concept:

- Database & database users
- database system concept & architecture
- schema & instances
- DBMS architecture
- database languages & inferences
- data modeling using E-R Approach
- Conventional data models and systems
- networking data model
- Hierarchical database structure
- Relational database design
- Functional dependencies & normalization.



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Korth, S.Sudarshan



Database Management System (Text Book Vision
publication)

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Ref page from 2.1 to 6.24

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Topic 2



Concurrency control & recovery techniques.

- Basic Concept of Object oriented Database
- parallel database
- distributed database



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Topic 3



RDBMS –

- Concept of DBMS
- Concept of RDBMS
- Difference between DBMS and RDBMS
- features of RDBMS
- Introduction of Oracle
- Historical Development of Oracle,
- Oracle configurations – OLTP, DDD, Data warehouse, Data Mart, wide server
- Role & responsibilities of oracle DBA
- RDBMS Terminology –
 - Relation
 - Tuple
 - Cardinality
 - Attribute

- degree
- Primary key
- Domain Codd's rules
- relational model
- Integrity Constraints
- Functional Dependencies



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Topic 4




Introduction to SQL

- Features of SQL
- starting up database
- logging on to SQL plus
- Data types
- classification of SQL commands
- SQL table creation
- integrity constraints
- insertion of records
- select statement
- alter commands
- Drop Table
- Partitioned Table
- SQL Operators
- Transaction processing
- where clause
- Like Operator
- Between Operator
- Order by clause
- GROUP BY clause
- Having clause
- SQL Functions –
 - Arithmetic functions
 - Conversion functions
 - Miscellaneous Functions.



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Ref page from 114 to 199

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Topic 5




Sub queries and Join-

- Sub queries
- Multiple sub queries
 - Correlated subquery
 - Subquery in From clause
 - Subquery in Order by clause
 - by using Exists & not Exists
 - Multicolumn subquery
- Implicit, Explicit open, close cursor,
 - cursor attributes
 - cursor for loop
- Introduction to Triggers-
 - Block level
 - field level triggers
- simple example to be solved with form.



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Ref page from 199 to 227, from 266 to 271, from 275 to 278, from 338 to 349, from 352 to 367, from 404 to 412, from 429 to 442

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Topic 6



Forms & Menus

- Basic concept of Form
- Application development in Form
- Creating a Form
- Running a Form
- Working with Master form

- Maintaining standards in Forms
- Master Detail Form
- Libraries & Alerts
- Menus-
 - Using Default Menu
 - Using custom menu
 - Attaching a menu
 - Module to a menu

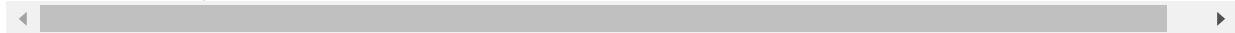


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Ref page from 139 to 309



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Topic 7



Reports

- Features of report
- Defining data module for a report
- specify Runtime parameter form for report
- features of D2K with application.



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Ref page from 313 to 363

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Session 1/45



Objectives:

After this session you should be able to understand what is database, what is database management system, advantages and disadvantages of dbms, various users of database.



Database and Database management system ✎

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DBMS ✎ 669KB Powerpoint presentation

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Session 2/45



Objectives:

This session covers actual database system architecture, how user get response whenever he request.





 DATABASE SYSTEM STRUCTURE 

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 Database System Architectures  508.5KB Powerpoint presentation

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Session 3/45





Objectives:

In this session you will learn about schema, instances, database languages, conventional data models and systems and what are the advantages of DBMS over regular flat file systems.



 Advantages of dbms over file processing system 

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Session 4/45



Objectives:

This session covers network data model, hierarchical data model and relational data model



 Network, hierarchical and relational data model 

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Session 5/45



Objectives:

In this session you will learn about Functional dependencies



Functional Dependency 

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Functional Dependency  1.1MB Powerpoint presentation

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Session 6/45



Objectives:


This session covers the concept of normalization and denormalization. You will learn various normal forms in this session and why there is need of normalization also



Normalization and denormalization 

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Normalization  1.1MB Powerpoint presentation

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Session 7/45





Objectives:

After this session you should be able to understand the basics of object oriented databases and its advantages





Object oriented database 

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 Object-Based Databases  337KB Powerpoint presentation

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Session 8/45



Objectives:

After this session you should be able to understand the basics of Parallel databases and its advantages also their applications, where they are used





 Parallel databses 

Edit ▾ 

 Parallel Databases  315.5KB Powerpoint presentation

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Session 9/45



Objectives:

After this session you should be able to understand the basics of distributed databases and its advantages





 Distributed database 

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 Distributed databases  502KB Powerpoint presentation

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Session 10/45



Objectives:

This session covers basics of relational database management systems, difference between DBMS and RDBMS.



  Difference between DBMS and RDBMS 

Edit ▾ 

  SQL ,PL/SQL by Ivan Byross 

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+ Add an activity or resource



Session 11/45



Objectives:

This session introduces Oracle, historical development of Oracle



  Oracle 

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Session 12/45






Objectives:

After this session you should be able to understand the role and responsibilities of (DBA) database administrator



  Role of DBA 

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Session 13/45



Objectives:

After this session you should be able to understand the concept of Data warehouse, data mart and OLTP i.e. Online Transaction Processing



  Data wearhouse, data mart and OLTP 

Edit ▾ 

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Session 14/45



Objectives:

This session covers RDBMS terminology: Relation, Tuple, Cardinality, Attribute, degree






  RDBMS terminology 

Edit ▾ 

  RDBMS terminology  2.8MB Powerpoint presentation

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Session 15/45



Objectives:

This session covers relational database design concepts and Domain Codd's Rules



  Domain codd's rules 

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  SQL ,PL/SQL by Ivan Byross 

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Session 16/45



Objectives:

In this session you will learn what is mean by Constraints, why there is need of constraints ,what happen befor and after defining constraints and various integrity constraints such as primary key, not null, unique, foreign key



  Constraints 

Edit ▾ 

  SQL ,PL/SQL by Ivan Byross 

Edit ▾



Session 17/45



Objectives:

This session covers Business Rule constraint- Check constraint and self referential constraint foreign key . Also you will learn about what is mean by domain



Check and Foreign key constraint

Edit



SQL ,PL/SQL by Ivan Byross

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Session 18/45



Objectives:

This session covers features of SQL, logging on to SQL plus, starting up database, basic data types used in SQL



SQL

Edit



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Session 19/45



Objectives:

In this session you will learn how to create user and why there is need to create user also how to give grant to that user



SQL ,PL/SQL by Ivan Byross

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create user

Edit

+ Add an activity or resource



Session 20/45



Objectives:



 SQL commands 

Edit 

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Session 21/45



Objectives:

In this session you will learn how to create tables.



 Create table 

Edit 

 SQL ,PL/SQL by Ivan Byross 

Edit

+ Add an activity or resource

Session 22/45



Objectives:

This session covers DML commands i.e. insert, update and delete with syntax and example.



 DML commands 

Edit 

 SQL ,PL/SQL by Ivan Byross 

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Session 23/45



Objectives:

In this session you will learn how to give different constraints while creating tables, what is table level and column level constraints and how it gives, why there is need of table level constraints, what is on delete cascade and on delete set null option



 Defining various constraints 

Edit 

 SQL ,PL/SQL by Ivan Byross 

Edit



Session 24/45



Objectives:

In this session you will learn about select statement. You will learn how to extract records from table, how to filter records with the help of where clause, how to display only unique values (distinct)



SELECT statement

Edit



SQL ,PL/SQL by Ivan Byross

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+ Add an activity or resource



Session 25/45



Objectives:

This session covers Alter table command. You will learn how to modify structure of table i.e how to add or delete columns, constraints also what are the restrictions while altering tables



Altering table

Edit



SQL ,PL/SQL by Ivan Byross

Edit

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Session 26/45



Objectives:

This session covers range searching and pattern matching i.e. use of between and like predicate, how to arrange records orderly i.e. use of order by clause, use of various SQL operators (arithmetic, comparison, logical), how to connect two conditions using logical operators



SQL operators

Edit



SQL ,PL/SQL by Ivan Byross

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+ Add an activity or resource






Session 27/45

Objectives:

In this session you will learn about various SQL functions, scalar verses group functions, use of group by and having clause



  Group by and having clause 

Edit 

  SQL ,PL/SQL by Ivan Byross 

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Session 28/45



Objectives:

This session introduces the concept of sub query, the cases where we need to use sub query



  Sub query 

Edit 

  SQL ,PL/SQL by Ivan Byross 

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+ Add an activity or resource






Session 29/45



Objectives:

This session covers sub query in DML commands



  Subquery in DML commands 

Edit 

  SQL ,PL/SQL by Ivan Byross 

Edit

+ Add an activity or resource






Session 30/45



Objectives:

This session covers sub query in From clause and co-related sub query



  subquery in from clause and co-related subquery 

Edit 

  SQL ,PL/SQL by Ivan Byross 

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Session 31/45



Objectives:

This session covers sub query in order by clause, using exist and not exist and multi column sub query



  Multi column subquery, using exist not exist subquery with example 

Edit ▾ 

  SQL ,PL/SQL by Ivan Byross 

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+ Add an activity or resource

Session 32/45



Objectives:

In this session you will learn about join, its need, its various types(inner/equi, outer(left,right,full),cross,self join) with syntax and example



  Join 

Edit ▾ 

  SQL ,PL/SQL by Ivan Byross 

Edit ▾

+ Add an activity or resource




Session 33/45



Objectives:

This session covers various set operations used in SQL



  Set operations 

Edit ▾ 

  SQL ,PL/SQL by Ivan Byross 

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+ Add an activity or resource



Session 34/45



Objectives:

This session introduces the concept of PL/SQL, its advantages , difference between SQL and PL/SQL, general block structure of PL/SQL, control statements used in PL/SQL



PL/SQL

Edit



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Session 35/45



Objectives:

In this session you will learn about functions and procedures, there advantages, how to create procedure and functions with syntax and example



Functions and procedures

Edit



SQL ,PL/SQL by Ivan Bayross

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Session 36/45



Objectives:

This session introduces the concept of cursors. You will learn what is mean by cursor, its types implicit and explicit , it's attributes, cursor for loops with syntax and example of each . You will also learn in this session what is %type and %rowtype



cursors

Edit



SQL ,PL/SQL by Ivan Bayross

Edit

+ Add an activity or resource



Session 37/45



Objectives:

This session introduces the concept of triggers, difference between procedure and trigger, types trigger (field/row level, statement/block level) with syntax and example



 Triggers  Edit 

 SQL ,PL/SQL by Ivan Bayross  Edit

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Session 38/45




Objectives:

In this session you will learn about views, its need, advantages, working, its types(read only and updatable) with syntax and example



 Views  Edit 

 SQL ,PL/SQL by Ivan Bayross  Edit

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Session 39/45



Objectives:

This session covers how to create sequence, its use. You will also learn in this session the oracle transactions commit and rollback, working of grant and revoke commands



 Oracle transactions commit, rollback , grant ,revoke  Edit 

 SQL ,PL/SQL by Ivan Bayross  Edit

+ Add an activity or resource





Session 40/45





Objectives:

After this session you should be able to understand the basic concepts of forms, how to create form and how to run it



 Forms in Oracle 

Edit 

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Session 41/45





Objectives:

This session covers Master-detail form concepts, what are the advantages of master-detail form, how to create master-detail form and how it runs



 Master detail form 

Edit ▾ 

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Session 42/45





Objectives:

This session covers all about libraries and alerts



 Libraries 

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Session 43/45




Objectives:

This session covers concept of menus-default menu , custom menu, how to create menus

In this session you will learn how to open a form through a menu



 Creating menu 

Edit ▾ 

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Session 44/45






Objectives:

This session covers features of report, how to create report and defining data source to a report



  Reports in oracle 

Edit ▾ 

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Session 45/45






Objectives:

This session covers specifying run time parameter form for report



  Runtime parameters to report 

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Session on DBMS Transactions



Objectives:

This session covers what is mean by transaction, transaction states and ACID properties in detail






  DBMS Transactions 

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  Transactions  1.2MB Powerpoint presentation

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Session on DBMS Concurrency Control



Objectives:

This session covers concurrency control techniques



DBMS Concurrency Control

Edit



Concurrency Control 1.6MB Powerpoint presentation

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Session on DBMS Data Backup and recovery



Objectives:

This session covers DBMS Data Backup and recovery



Session on DBMS Data Backup and recovery

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Recovery System 590KB Powerpoint presentation

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Test 3 on True or False

Edit



Test 4 on True or False

Edit



Test 5 on short answer type

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- Session on DBMS Transactions
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