

SARDAR PATEL UNIVERSITY
BBA (ISM) (3 Years) Semester - 4
Syllabus with Effect from: 2019-20
UM04CBBS23 DATABASE MANGEMENT SYSETEM

Marks: 100

Credit: 03

Unit 1	<p>Database Management System</p> <ul style="list-style-type: none"> -Basic concepts -Data, Information, Field, Record, Database File, -Advantages and Disadvantages of DBMS. -Organization of DBMS. -Components of DBMS. -Structure of DBMS. 	25%
Unit 2	<p>Data Models & Relational Database</p> <ul style="list-style-type: none"> -Data Model -E-R Modeling -Entity, Attribute, Relationship & Types, Mapping cardinality, -Membership class of the entity type, Rules of Drawing ER Model -Relational Data Model : Concept, Example, Advantages, Disadvantages -Normalization : 1NF,2NF,3NF -Difference between Conventional DBMS and RDBMS -Codd Rules 	25%
Unit 3	<p>SQL</p> <ul style="list-style-type: none"> -Introduction to SQL -Data Types Built in -Char, Varchar, Varchar2, number, date, raw, long, lob, etc. -CREATE TABLE (without constraints) -INSERT, UPDATE, DELETE -SELECT (simple, with form & where clause) -DROP table -SELECT * from Tab <ul style="list-style-type: none"> -DESC -ALTER TABLE(add/modify columns) - SPOOL -NULL values -Primary Key , Foreign Key -Unique Constraint -Check Constraint -Use of USER_CONSTRAINTS -Constraints in CREATE TABLE -ALTER TABLE to add/remove constraints 	25%
Unit 4	<p>SQL Functions and Pattern Matching</p> <p style="text-align: center;">25%</p> <ul style="list-style-type: none"> - Range Searching and Pattern Matching ➔ Arithmetic Operators ➔ Relational operators ➔ Logical Operators ➔ IN, LIKE , BETWEEN - Group functions 	25%

	<ul style="list-style-type: none"> ➔ AVG, MIN, MAX, COUNT, SUM - Numeric Functions ➔ ABS, POWER, ROUND, TRUNC, SQRT - Character Functions ➔ UPPER, LOWER, INITCAP, LENGTH, SUBSTR, LPAD, RPAD, LTRIM, RTRIM. - Date Functions ➔ ADD_MONTHS, LAST_DAY, MONTHS_BETWEEN ➔ Addition and Subtraction of dates - Conversion Functions ➔ TO_NUMBER, TO_CHAR, TO_DATE ➔ Number and date format models 	
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References:

1. Oracle Developer 2000 by Ivan Bayross, BPB Publishers.

PRACTICAL BASED ON DATABASE MANGEMENT SYSETEM

1	Create appropriate tables and insert the data.
2	Find the names of all the clients.
3	Retrieve the entire contents of the client _master table.
4	Retrieve the list of names and the cities of all the clients.
5	List the various products available from the product master table.
6	List the clients who are located in Bombay.
7	Find the names of the salesman who have a salary equal to Rs. 3000.
8	Change the city of client_no 'C00005' to 'Bombay'.
9	Selected all salesman from the salesman_master shoes salaries are equal to Rs. 3000.
10	Ad a column called 'telephone' of data type 'number and size = '10' to the client_amster table.
11	Change the size of sell_price column in product-master to 10,2.
12	Destroy the table client_master along with its data.
13	Find the names of all clients having 'a' as the second letter in their names.
14	Find out the clients who stay in a city whose second letter is 'a'.
15	Find out the list of all clients who stay in 'Bombay' or 'Delhi'.
16	Print the list of clients whose bal-due is greater than value 10000.
17	Print the information from sales_order table for orders placed in the month of January.
18	Display the order information for client_no 'C0001' and 'C0002'.
19	Find products whose selling price is greater than 2000 and less than or equal to 5000.
20	List the names , city and state of clients who are not in the state at 'Maharastra'.
21	Count the total number of orders.
22	Calculate the average price of all the products.
23	Count the number of products having price greater than or equal to 1500.
24	Find the products whose qty_on_hand is les than reorder level.
25	Find out the sum total of all the billed orders for the month of 'November'.
26.	Display the s_order_date in the format 'dd-month-yy' e.g. 12-February-98.
27.	Find the number of days elapsed between today's date and the delivery date of the orders placed by the clients.

Evaluation Scheme

Internal (Theory + Practical) = 40 Marks

External (Theory + Practical) = 60 Marks