

DETAILED SYLLABUS

Contents: Practical

PART – A

1. Install, configure and connect to MySQL server and MySQL workbench in windows. Create a database, backup and restore the database.
 2. To study Basic MySQL commands (create database, create table, use, drop, insert) and execute the following queries using these commands:
 - Create a database named 'employee'.
 - Use the database 'employee' and create a table 'emp' with attributes 'ename', 'ecity', 'salary', 'enumber', 'eaddress', 'deptname'.
 - Create another table 'Company' with attributes 'cname', 'ccity', 'empnumber' in the database 'employee'.
 3. To study the viewing commands (select, update) and execute the following queries using these commands:
 - Find the names of all employees who live in Chennai.
 - Increase the salary of all employees by Rs.5,000.
 - Change the company city to Chennai where the company name is 'TCS'.
 4. To study the commands that involve compound conditions (and, or, in, not in, between, not between, like, not like) and execute the following queries using these commands:
 - Find the names of all employees who live in 'Chennai' and whose salary is between Rs.20,000 to Rs.30,000.
 - Find the names of all employees whose names begin with either letter 'A' or 'B'.
 - Find the company names where the company city is 'Chennai' and the number of employees is not between 5000 and 10,000.
 - Find the names of all companies that do not end with letter 'A'
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5. a) Create a database 'polytechnic_collee'. Create 2 users namely 'staff' and 'student'.

- Grant all privileges to the user 'staff' and grant only 'create' privilege to 'student' user and verify the same.
- Revoke all privileges to the 2 users and verify the same.

b) Implement the following transactions control statements.

i) Commit ii) Rollback iii) Save point

6. Create table 'author' with the following structure

author_id

author_name

address

mobile

book_title

pages

published_on

- i) Insert 4 books published by 3 authors each. (12 records)
- ii) Fetch all the rows and observe how the data duplicated.
- iii) Apply 1st and 2nd normal forms to fix it.

7. To study the commands for views and execute the following queries using these commands:

- Create a view having ename and ecity
- In the above view change the ecity to 'Chennai' where ename is 'John'.
- Create a view having attributes from both the tables.
- Update the above view and increase the salary of all employees of IT department by Rs.1000.

8. Create a library table with proper fields. Create another table called library1 and insert rows from library table.

Hint:

CREATE TABLE new_table LIKE original_table;

INSERT INTO new_table SELECT * FROM original_table;

PART – B

9. Create a table to store the details of a customer in a Bank. Do some transactions like withdrawal, deposit. Find the Balance amount (Credit Limit). Based on customer's credit limit, write a program using **IF** or **CASE** flow control statements to find the customer levels namely SILVER, GOLD or PLATINUM.

If the Credit limit is

- greater than 50K, then the customer level is PLATINUM
- less than 50K and greater than 10K, then the customer level is GOLD
- less than 10K, then the customer level is SILVER

10. Create two tables with the following structure.

a) users - table name

user_id - UNSIGNED, INT, AUTO INCREMENT, PRIMARY KEY

username - VARCHAR (60)

password - VARCHAR (128)

email - VARCHAR (255)

b) users_profiles

user_id - FOREIGN KEY refers to user_id field of user table

first_name - VARCHAR(60)

last_name - VARCHAR(60)

mobile - VARCHAR(15)

i) SELECT all the users along with their profile details. (Hint: Use INNER JOIN)

ii) SELECT the users who do not have profiles (Hint: USE LEFT JOIN

and exclude the rows generated with NULL values from joining table)

11. Create an employee database and create a stored procedure that accepts

employee_id as input and returns complete details of employee as output.

12. Create two tables with the following structure

Authors

author_id - INT

name VARCHAR (60)

titles_count INT -- holds the total number numbers of titles authored.

Titles

author_id - INT

name VARCHAR (512) -- name of the title

a. Create a trigger to update the titles count field of respective row in authors table each time a title gets inserted into titles table.

b. Create **log table** with the following structure

author_id – INT

name VARCHAR (512) -- name of the title

status VARCHAR(25) --- ADDITION, DELETION, UPDATION

and insert an entry in that table each time the tile is added, deleted or updated.

Use a trigger to accomplish this.

13. Create a table containing phone number, user name, address of the phone

user. Write a function to search the address using phone number.

14. Create a table to store the salary details of the employees in a company. Declare the cursor id to contain employee number, employee name and net salary. Use cursor to update the employee.
15. Write a program to connect PHP with MySQL and create a database using PHP MySQL.

BOARD EXAMINATION

NOTE:

Students should write one program from **PART A** and one program from **PART B**.

DETAILED ALLOCATION OF MARKS

Writing answer for any one program from PART – A	20 Marks
Writing answer for any one program from PART – B	25 Marks
Executing program (PART – A)	20 Marks
Executing program (PART – B)	20 Marks
Result with printout (PART – A)	5 Marks
Result with printout (PART – B)	5 Marks
VIVA – VOCE	05 Marks
TOTAL	100 Marks

LIST OF EQUIPMENTS

HARDWARE

1. Desktop Computers – 30 No's
2. Printer – 1 No's

SOFTWARE

1. mysql 5.5.20
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