Working With Database:

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A Database is an organized collection of information that can be easily accessed, managed and updated Database committing of logically related data/records.

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Database Applications: - Banking, Airlines, telecommunications, auctions, sales, Universities, credit card tronsactions, finance etc.

-> Data base belies on software, Data Base Management Systems (DBMS). DBMS having many advantages over file system.

@ Reducing data redundancy and inconsitency.

Ofasy to access

- Supports ACID (Automicity, Consistency, Isolation to Durability) Transaction management properties.
- o providing enhanced security features.
- · solving the data integrity problems by providing constraints.
- @ Provides Back-up, by storing data on disk.

-> Storing so retrieving data to and from database tables can perform with the help of "queries", an english statements to access table data.

-) working with sal Statements: - sal is the most widely used query larguage to manipulate data in a database. SQL queries can be

BData Definition Language CODL) :- Defines the structure of a database and

its tables => create, drop, truncate, alter. D. Data Manipulation Language (DML) = Allows you to alter and extract data from data from database tables add, delete, madify (update), retrieve.

- @ Data Control languages (DCL): Grant & Revoke r.e priviliges.
- @ Transaction Control Larguages (TCL): Rollback and Save point.

1 I alakement in	Achon:
SQL command / statement :-	patabase creation
SAL statement	
create Database account (field, field type Nergth),	table creation.
ministrate and the second seco	Insert a new tuple
Insert into table (field,, fieldz) values (value)	ariar)
Value 2	updates the value
update table set field, = value, freldz=value (where condition]	grouplys @
Select field, field, from table-name (condition)	70 retrieve.
select of from table-hame,	10 Rename.
Rename tablerane to new_table name Drop table table-name Drop database database-name	table & datable
Alter table table-name drop colum colum-name Alter table table-name add column colum-name datatype Alter table to change oldcolum newchum datatype; Alter table to change oldcolum newchum datatype;	To Alter table structure.
-> list of Datalypes in MySQL are: Char() Float Pouble(1) Text Date	D. Lots Madjulation

Connecting a database: - In PHP, you can connect with database by establishing Connection to the mysal database server. PHP requires the following information so hostname

O user name of database o password.

(wamp) Hwww) Loonread php

connected b. php

< ? Php

mysql - connect ("hostname", "username", "password") or die (mysql-emorts); " successfully Connected with database server";

bosen hot fromhectab. Php -ax successfully connected with

-> Mysql functions :-

- * mysql_connect ("hostname", "username", "parsword"); to connect with mysql
- * mysql_select_db ("databasename"); to select a particular database from the mysql server databases
- * mysql-query ("query"); to process mysql comments.. we have to pass our query as a parameter, that query can be any. query / command like: creating a database / table. : Any DDL command .

SDML, DCL, TCL command.

- * mysql-close(); to close or disconnect the server (database) connection.
- * mysql-fetch_array(); The retrieved data of select command can

read with this function.

* malie(mysql_error()); - Displaye | the corresponding error message It any exporpsyntax mistake in the mysql queries.

(iii). Selecting a database: - Its a selection of working environment the corresponding database to which we will work from the mysql - select - db ("database name"). user databases Steps:-1. Connect with database server 2. select the databax. 3. close the Connection mysql-connect ("hostname", "username", "password") or die (mysql-error abseloct php <9 php echo "sucersfully, connected to the observer"; \$ database name = "mydb"; Mysyl fundams at mysql-select-db ("\$databasename); echo "Lbr> database statabasename is selected"; mysql - closecs; ?> ii) Creating a database; - we can create the database with the comman "Create database databasename"; Abcreate, php L9 Php mysql-connect ("hoxname", "username", "password") or die (mysql-ex echo "connected with abserver cbr>"; squery = "create database mydb"; mysql-query (\$query) or die (mysql-errores); echo "databar exeated"; · mysql - errorc);