DATE / / 08-0C+ -> DDL -> Data Defination Language. DML -> Data Manipulation Language * 1 What is DDL ? Gurries? DDL stands for (Data Defination language), which is subset of son used to define, modify and manage the structure of database object such as tables, indexes, views. and sche, it focuses on setting up the structure of the database rather than manipulating the data gt self. Common DDL commands. 1) create - used to create new db. 2) Alter - used to modify anexisting db. object such as adding or removing columns from a table. ex- Alter table empl ADD salary decimal (10,2); 3) Drop - use to delete a db object like a dable or an index. ex- drop table empl;

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4>	Truncate - used to semove all records
	from a table without delling deliting the table it self.
	ex- truncate table empli
5>	Rename - used to rename adb object, such as a table or column.
en de la company	alter table empl rename to staf;
*	Importance of adj
P	Consistency: ddl commands help maintain consistency and integrity
	of db schema.
-3	Performance: Proper use of dell commands can optimize database
	performance.
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Φ2	Inhat is don! ? Queries?
₩ - \	NAIL CARTE MADININATION FOLIAGE
	refers to a subset of SQL comman-
	do that are used to manipulate
	and manage data in relational
	dh.
	DML allows users to retrive
	insert, update, and delete data
	from db tables. These operation
	do not affect the db structure.
	but rather the datastored in
	with in the database.
*	DML commands-
1>	Select: used to retrieve data
	promone or more tables
	in db.
	ex - select emprane, empage from empl where empid=9;
	empl where empid=9;
	La
	Insert = Used to insert data into
	a table.
	ex-insert into emplempid, empnare
	empage, empdept) values (10, raj), (23), (c.s))
	ray, (23), (c.s))

	DATE / /
3>	Update - used to modify existing
	ex-Update emploset empage=24 Inhere empid=10;
+>	Delete: Used to delete data from
	ex-Delete from empl Inhere empid = 10;
-	Data Letrieval - select and
* * +	Data Entry > Insert and Data modification > Update and Data removal -> Delete and
17	
3	
3	Data Control language are used to control access to data within the data base.
3	- Data Control Language are used to control access to data within the data base manage permissions and ensure data security.
3	Data Control Language are used to control access to data within the data base. - magnage permissions and ensure data security. Grant - Provides Specific privileges to users or roles.
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1	Data Control Language are used to control access to data within the data base. - magnage permissions and ensure data security. Grant - Provides Specific privileges to users or roles. ex - Grant Select, Insert on

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	Data Query Language primarily duta from the dutabase.
$\neg d \downarrow$	
	Select - The primary cond for
	Select - The primary cond for querying data
War and the second	
171-181	ex-select empname, empdent, from empl Inthere empage > 20;
	empi ininere empage 120,
P5	TcL
-4	Transaction control language
	Transaction control language commands manage transactions
	with in db.
1 1	
$nd \downarrow$	Commit: Saves all changes made
1>	during the current transaction
	ex-commit;
2)	Rollback: undoes all changes made during
SHAP	Rollback: undoes all changes made during the current trasciction.
	ex-Rollback;
Vinc.	a continue de la cont
3>	Savepoint: set a point with in transaction to which you can Jater roll
	to which you can save tron
	ex-Savepoint before-update;
	CY - Saveriorin Delois - apar

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2	
06.	Ixthat is Alter keyword in sql? Inthy to use? all querries?
	Inthy to use ? all querries?
A	The alter keyword is SQL is
	a powerful data defination language
	The alter keyword is SQL is a powerful data defination language comd. used to modify the structure of existing abobjects, primarily tables.
	of existing abobjeds, primarily tables.
	Alter Keywordis SQL
	Alter keyword is SQL The dialter statement is used
	to modify an existing dalabase object, such as a table, index or
	Object, such as a table, index or
	view.
	+> Add modify or drop columns in
	truble.
	3> Rename tables or columns.
	3) Rename tables or columns.
	4) change datatypes of existing
	columns.
	52 Manage indexes and other table attributes.
	table attributes.
	* use the Alter Keyword *
1	1) Maintaining Data integrity.
	- you might need to add constraints
	like (NOT NULL, Unique, Foreign key)
	- encure data integrity de
4	
	- you might need to add constraints like(NOT NULL LUNIQUE, foreign key) to ensure data integrity as the application logic changes.

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•	2) Optimizing Performance
	Altering indexes or modifying column data types can optime query perform
	* Alter Queries V >X
	1) Adding Columns.
	alter table empl add email varcharconsunique;
	alter table empl Add add (Ph-nuber varcharus); hiredate DATE);
	2) Modifying Columns. * Change Column data type.
	alter table employees mallint;
	* Add or remove alter table empl modify column email varibar(100) not nul-

DATE / /
3> Rename Column.
* after table name empl
change column empl empll
varchar (50);
a) Dropping column
alter table empl
drop column ph-number;
5> Managing Constraints
* Adda primary key constraint
alter table empt add constraints
pk-empl primary key (empid, email);
*add a foreign key constraint: alter table empt add constraint
after table empt add constraint
tk-emp-dept foreignkey (empdept) references departments (deptname);
* Dropa constraint
altertable empl
drop check chk-age;