

M. K. S. S. S. CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE.

STUDENT'S ROLL NO. :



	Assignment 1
Andrew of the	And the state of t
	Database Schema - H is a skeleton structure
	that represents the logical view of the entire
	database It defines now data is organized and
	how the relations among them are associated It
	Community all the training the desire to be
	formulates all the constraints that are to be
	applied on the data.
	DDI I AMI
	DDL and DML -
	DDL (Pata Definition language) - It is used to
	create the database schema and can also be
	used to define some constraints. It basically
	defines the columns (Attributes) of the table DDL
	does not have any further classification.
	Basic commands present in DDL are create, drop,
	rename, alter, etc. D'Ol does not use Where clause
	in its statements.
	DML (Data Manipulation language) - It is used to
	add retrieve or update the data. It adds updates
	the rows of the table (called as tuples) It is
	DML (Data Manipulation language) - It is used to add, retrieve or update the data. It adds/update the rows of the table (called as tuples). It is classified into Procedural and Non Procedural Data Manipulation language. Basic DML commands are - update, insert, merge, etc. DML uses Where clause in its statements whenever required.
	Data Manipulation language. Basic DML commands
	and - undate insert, merge etc. DML uses where clause
	in its statements who noves requised.
	MySSL Data Types - MySSL uses many different data Types broken into 3 categories -
	the Indeen into 3 categories -
	with property was a stage of

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	Numeric	Data I	ipes -			
	INTISZE), TINYIR	IT (size), SI	MALLINT (si	re), BIGINT	(size),
	MEDIUMIN	T(sire)				
	Туре	Length in	Minimum	Maximum	Minimum	Maximum
width upter		bytes	value	Value	value	value
wionn apa			(Signed)	(Signed)	(unsigned)	(unsigned)
4 digits	TINYINT		-128	127	D	155
5 digits	SMALLINT	2	-32768	32769	0	65535
9 digits	MEDIUMINT	3	-8388608	8388607	0	16777215
II digito	INT	4	-2 47483618	2 47483647	0	4294967295
20 digits	BIGINT	8	-92233720	92233720	0	18446744073
J			36547758	368547758		09551615
			08	09		1
	8 bytes FLOAT (1) Cannot and to	1,0) - be une he no-	ouble fre A floaturigned Yo of decima	g foint y can defi	number to the discountry	isplay length M required and
	decina	lo and	10 is the	total no.	of digits	including
	the de	cimals.	Decimal p	reusion o	an go u	pto 24
	places	for a	float.			

	DOUBLE (M, D) - A double precision floating point
	pumper that cannot be unsigned. You can define The
	display length M and the number of decimals (D).
	This is not required & it will default to 16,4
	This is not required & it will default to 16,4 where 9 is the number of decimals. Decimal
	precision can go upto 53 places for DOUBLE.
	precision can go upto 53 places for DOUBLE. REAL is a Synonym for DOUBLE.
	DECIMAL (M,D) - An se unpacked floating point number that cannot be unsigned. In unpacked
	number that cannot be unsigned. In unpacked
	decinals, each decimal corresponds to a bute.
	Defining the display length M and The number of
	Defining the display length M and The number of decimate D is required.
	NUMERIC is synonym for DECIMAL.
	J U J
	String Datatypes
	J
	CHAR(M) - A fixed length string between 1 and 255
	characters in length It is right radded with spaces to the
	specified length when stored. Defining a length is not required but the default is 1.
u u	required but the default is 1.
	VARCHAR(M) - A variable length string between I and 255 characters in length. For eg- VARCHAR(25), You must define a length when creating a VARCHAR field.
	255 characters in length. For Eg- VARCHAR (25), You
	must define a length when creating a VARCHAR field.
	BLOB/TEXT - A field with a maximum length of
	65535 characters, BLOBS are "Binney Jakon Chiesto"
	BLOB/TEXT - A field with a mersimum length of 65535 characters. BLOBS are "Binary Large Objects" and are used to store large amounts of sinary data
	Store I and the store of the st

"शीलं परं भूक्कम्"

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	such as images or other types of files. Fields defined as texts also hold large amounts of data. The difference between the 2 is that sorts & comparisons on the stored
	texts also hold large amounts of data. The difference
	between the 2 is that sorts & comparisons on the stored
	gate are case sensitive on BLUBS and not case
	sensitive in TEXT fields. You do not specify a length with BLOB/TEXT.
	TINYBLOB/ TINYTEXT - A blob/tent column with a
	maximum length of 255 characters. You do not enecify a
	maximum length of 255 characters. You do not specify a length with timpblob or tinytest.
	Muula
	MEDIUMBLOB/MEDIUMTEXT - A blob/text with maximum
	length of 4294967295 characters 16777215
	characters. You do not specify a length with
	MEDIVMBLOB/MEDIVMTEXT.
	LONGBLOB/LONGTEXT - A BLOB/TEXT column with
	maximum length of 4294967295 characters. You do not specify a length with LONGBLOB Or LONGTEXT.
	specify a length with LONGBLOB Or LONGTEXT.
	ENUM - An enumeration or a list while defining an
	enum you are creating a list of items from which the
	value must be selected or it can be NVII. For eq-
	if you wanted usua field to contain unit = "0"
	if you wanted your field to contain "A" or "B" or "C" you could define your enum as ENVM('A', 'B', 'C') and only those values or NVU could ever populate
	the day of the state of the sta
	h of C-11
	That feld.
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	Greate table command with the following integrity
	constraints - PRIMARY, KEY, UNIQUE, NOT NULL, DEFAULT,
	AUTO INCREMENT Feature
	The create table command is used to create a
	new table in the database. MySQL constraints are
	used to define rules or to restrict what values can
	be stored in tables columns Purpose of inducing
	constraints is to maintain integrity of database.
	Primary Key - A primary key is a field that can
	Primary Key - A primary key is a field that can uniquely identify the each now in a table. This
	constraint enforces the table to accept unique data which
	is not null for a snealir column. A primary key
	can be simple or composite (multiple columns). A table
	can have entre l'aimany kou
	can have only I primary key.
2,	Unique - The unique constraint in MuSOI don not
	Unique - The unique constraint in MySQL does not allow to insert a duplicate value in a column. The
	with a property a compacted value in a congress, the
	unique constraint maintains the uniqueness of a
	column in a table. More than one unique column can be used in a table.
	be used in a latte.
3.	NOT NULL - In MySQL, NOT NULL constraint allows to
	Specify that a table cannot contain any NULL value.
	Specify that a table cannot contain any NULL value. My SQL NOT NULL can be used to create and alter a
	table.
A	DEFAULT - la Missel pach volumes must contain a
-1,	DEFAULT - In MySQL, each column must contain a value (at least a NVIL value), while inserting data into a
	young a round while, while mound day and

	table, if no value gets supplied to a table then the column gets the value set as DEFAULT.
	Auto Increment Feature - It allows a unique number to be generated automortically when a new records is inserted into the table.
	ALTER table command - The ALTER TABLE is used to add, delete or modify columns in an existing table. It is also used to add & delete drop various constraints on an existing column table. eg- ALTER TABLE Customers ALTER TABLE Customers ADD Finail VARCHAR(50); DROP Column Email;
	DROP table command - This command is used to remove the table from the database.
eg:	- DROP table Student;