MySQL

Saturday, November 13, 2021 12:09 AM

Commands	Output/Exp							
show databases; #shows available databases	++							
SHOW databases, #SHOWS available databases	Database							
<pre>create database test_database; # create database</pre>								
<pre>drop database test_database; #delete database</pre>								
<pre>use test_database; #use the selected database</pre>								
<pre>select database(); # tells the currently selected database</pre>	++ database() ++ my_pets ++ 1 row in set (0.00 sec)							
<pre>create table cats(age int, address varchar(100)); #creating table with name cats</pre>								
<pre>show tables; #shows available tables in the selected database.</pre>	+							
<pre>show columns from cats # shows columns from the table cats. OR</pre>	Field Type							
<pre>desc cats; #performs the same action as above describes the table.</pre>	age int							
<pre>drop table cats; # deletes the table cats from the database.</pre>								
Inserting data in the tables								
<pre>insert into cats (name, age) values ("jetson", 7); #this will insert data into already existing table.</pre>								
select * from cats;	++ name							
Multiple insert:								
<pre>insert into cats (name, age) # don't forget to write table values ("tim", 4), #name. ("john", 5), ("katy", 9), ("lens", 20);</pre>								
show warnings; # shows you warnings.								
<pre>insert into cats (name) values ("cluadia");</pre>	++ Field Type							
# NULL is yes in the table. It means its ok to have unknown value.	name varchar(50) YES NULL							
# NULL not means its 0.	++							
<pre>create table cats2 (name varchar(50) not null, age int not null); # this will ensure that name and age</pre>	2 rows in set (0.00 sec)							

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columns don't have null values. Default value is specifies
if nothing is provided.
create table cats2 (
name varchar(50) default "name not specified",
age int default 20 ); # here if any column entry is
null/not provided then default value is replaced.
create table cats2 (
name varchar(50) not null default "name is not specifies"
                                                             | Field | Type
                                                                                 | Null | Key | Default
                                                                                                                     | Extra |
age int not null default 20 ); # here you can't write null
                                                                                  -+-----
values and if no value provided then replaced by default
                                                                       varchar(50) | NO
                                                                                                  name not specified |
                                                             l name
                                                             age
                                                                                 | NO
value.
                                                                    int
                                                                                                1 20
                                                             2 rows in set (0.01 sec)
create table unique_cats (
cat_id int not null,
name varchar(50),
age int.
primary key (cat_id)
); # primary key is unique to each entry.
# auto increment will increment id as more entries comes
                                                             | Field
#in automatically.
                                                                              | Type
                                                                                          | Null | Key | Default | Extra
                                                              _____
create table employees(
                                                               id
                                                                                                           NULL
                                                                                                                       auto_increment
id int auto_increment not null,
                                                                                varchar(50)
                                                                                                           NULL
                                                               first_name
                                                                                            | YES
first_name varchar(50),
                                                               last name
                                                                                varchar(50) | YES
                                                                                                           NULL
last_name varchar(50),
                                                                                varchar(50) | YES
                                                               middle_name
                                                                                                           NULL
middle_name varchar(50)
                                                             current_status | varchar(50) | NO
                                                                                                           employed |
current_status varchar(50) not null default "employed",
primary key(id)
                                                             5 rows in set (0.00 sec)
);
                                                             mysql> select * from employees;
insert into employees(id, first_name, last_name,
current_status)
                                                             | id | first_name | last_name | middle_name | current_status |
values(1, "dolly", "devil", "internship");
                                                                             | devil | NULL
                                                             | 1 | dolly
                                                                                                         | internship
                                                            1 row in set (0.01 sec)
CRUD Commands(Create, Read, Update, Delete):
# inserting data in cats table
insert into cats(name, breed, age)
values('Ringo', 'Tabby', 4),
('Cindy', 'Maine Coon', 10),
('Dumbledore', 'Maine Coon', 11),
('Egg', 'Persian', 4),
('Misty', 'Tabby', 13),
('George Michael', 'Ragdoll', 9),
('Jackson', 'Sphynx', 7);
Select statement
                                                                                                     age |
                                                              | cat_id | name
                                                                                        breed
select * from cats; # gives us all the rows in the cats
                                                                        Ringo
                                                                                          Tabby
                                                                    2 |
                                                                        Cindy
                                                                                          Maine Coon
                                                                                                         10
                                                                    3
                                                                        Dumbledore
                                                                                          Maine Coon
                                                                                                         11
                                                                                          Persian
                                                                                                          4
                                                                        Egg
                                                                    5 İ
                                                                                          Tabby
                                                                                                         13
                                                                        Mistv
                                                                        George Michael
                                                                                          Ragdoll
                                                                    6 I
                                                                                                          9
                                                                    7 | Jackson
                                                                                          Sphynx
                                                                                                          7 I
                                                             7 rows in set (0.01 sec)
select name from cats; #Accessing specific columns using
#select statement.
                                                               Ringo
                                                               Cindv
                                                               Dumbledore
                                                               Egg
                                                              Mistv
                                                              George Michael
                                                              Jackson
                                                             7 rows in set (0.00 sec)
select name, age from cats; #selecting multiple columns at
once. Here order matters as in the next query.
                                                                              age |
                                                                                   4 I
                                                              Ringo
                                                              Cindy
                                                                                  10 l
                                                               Dumbledore
                                                                                  11
                                                                                   4
                                                             | Egg
```

	Misty
select breed, age, name from cats;	breed
	7 rows in set (0.00 sec)
<pre>where clause select * from cats where age=4;</pre>	cat_id name breed age ++
<pre>select * from cats where name='Egg'; # you can also write "egg", capital letter #doesn't affect the query.</pre>	t+
<pre>Some practice queries-Select, Where: select cat_id from cats;</pre>	t
select name, breed from cats;	name
select name, age from cats where breed='Tabby';	7 rows in set (0.00 sec) ++ name age ++ Ringo 4 Misty 13 ++ 2 rows in set (0.00 sec)
<pre>select cat_id, age from cats where cat_id=age;</pre>	++ cat_id age ++ 4 4 7 7 2 rows in set (0.00 sec)
Aliases: select cat_id as id, name as cats_names from cats; #aliases only changes name of the column for showing original column name are not changed.	id cats_names
Undate statement:	++

updating the right entries, same goes for delete statement. update cats set breed='Shorthair' where breed='Tabby'; #changing breed from 'tabby' to 'shorthair'. update cats set age=14 where name='Misty'; # change age #from 13 to 14.	7 +7 rows in +	Cindy Dumbledore Egg Misty George Michael Jackson +	Sphynx	11 4 13 9		
#changing breed from 'tabby' to 'shorthair'. update cats set age=14 where name='Misty'; # change age	4 5 6 7 +	Egg Misty George Michael Jackson 	Persian Shorthair Ragdoll Sphynx	4 13 9 7		
	6	George Michael Jackson set (0.01 sec) name Ringo	Ragdoll Sphynx	9 7 +		
	7 rows in +	set (0.01 sec) +	+ +	+		
	cat_id 1 2 3	name + Ringo		+		
	1 2 3 4	Ringo	+	age		
		: -	Shorthair Maine Coon Maine Coon	:	+ 	
	6	Egg Misty George Michael Jackson	Persian Shorthair Ragdoll Sphynx	4 14 9 7		
	+	+ set (0.00 sec)		+	+	
Some practice queries-Update:		+	+ breed	+ age	+ 	
update cats set name='Jack' where name='jackson'; # update	· –	+	breed + Shorthair		' - 	
'jackson' to 'jack'	2 3 4 5	Cindy Dumbledore Egg Misty George Michael	Maine Coon Maine Coon Persian Shorthair Ragdoll	10 11 4 14 9		
	+	Jack +set (0.00 sec)	Sphynx +	7 +		
update cats set breed='British Shorthair' where	+	+		+		
<pre>name='Ringo'; # update 'Ringo' # breed to 'British Shorthair'.</pre>	cat_id + 1	+ Ringo	breed + British Sho	rthair	age 4 10 11 4	
	5 6	Dumbledore Egg Misty George Michael Jack	Sphynx		11	
		+ set (0.00 sec)	+		++	
update cats set age=12 where breed='Maine Coon'; # update 'Maine Coon' age to 12.	+ cat_id	+ name	+ breed		++ age	
	1 2 3 4 5 6	Egg Misty George Michael Jack	British Sho Maine Coon Maine Coon Persian Shorthair Ragdoll Sphynx		4 12 12 4 14 9 7	
lata atatament.		set (0.00 sec)				
Delete statement: Before deleting something it is a good practice that you check what are going to delete by using select statement.	cat_id	•	+ breed +	j	age	
delete from cats where name='egg'; # note that the cat_id 4 no longer existing.	3 5 6 7	Cindy Dumbledore Misty George Michael Jack	Sphynx		4 12 12 14 9 7	
		+set (0.01 sec)	+		++	
delete cats; #this will delete all the data inside the #table but the table structure still exist you can put data inside it. # drop table will entirely remove your table.						
Some practice queries-Delete:	+ cat_id	+ name	+ breed	+ age	+	
delete from cats where age=4;	2	+ Cindy Dumbledore Misty	•	12	+ 	

	++ 5 rows in set (0.00 sec										
delete from sets chore one set id. # deletes detections											
<pre>delete from cats where age=cat_id; # deletes data where age and cat_id are same.</pre>	cat_id	name 	breed	++ age ++							
	2 3 5	Cindy Dumbledore Misty	Maine Coon Maine Coon Shorthair	12 12 14							
	6 George Michael Ragdoll 9 ++ 4 rows in set (0.00 sec)										
delete from cats; # deletes all data from the table. Table											
still exists.											