MySQL Create Table [20 exercises with solution]

1. Write a SQL statement to create a simple table of countries including columns country_id,country_name and region_id.

Query:

mysql> create table tbl_country (country_id int(5) primary key, country_name varchar(20) not null, region_id int(10) not null);

Output:

Query OK, 0 rows affected, 2 warnings (0.03 sec)

Query:

mysql> desc tbl_country;

Output:

+	+	+	+	+		
Field	Type	Null	Key D	efault	Ext	ra
+	+	+	+	+		
country_id	int	NO	PRI N	NULL		
country_name	varchar(20)	NO	1 1	NULL		- 1
region_id	int	NO	1 1	NULL		- 1
+	+	+	+	+		
3 rows in set (0.00 se	ec)					

2. Write a SQL statement to create a simple table of countries including columns country_id,country_name and region_id which already exists.

Query:

mysql> create table tbl_country (country_id int(5) primary key, country_name varchar(20) not null, region_id int(10) not null);

Output:

ERROR 1050 (42S01): Table 'tbl_country' already exists.

3. Write a SQL statement to create the structure of a table dup_countries similar to countries.

Query

mysql> create table dup_country (country_id int(5) primary key, country_name varchar(20) not null, region_id int(10) not null);

Out	put:
Vui	pui.

Query OK, 0 rows affected, 2 warnings (0.02 sec)

Query:

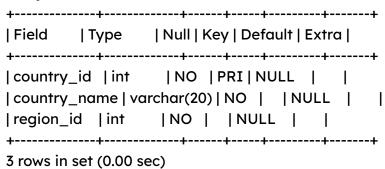
mysql> show tables;

Output:

4. Write a SQL statement to create a duplicate copy of countries table including structure and data by name dup_countries.

Query:

mysql> desc dup_country;



5. Write a SQL statement to create a table where countries set a constraint NULL.

Query:

mysql> create table tbl_country (country_id int(5) primary key, country_name varchar(20) null, region_id int(10) null);

Output:

Query OK, 0 rows affected, 2 warnings (0.01 sec)

Query:

mysql> desc tbl_country;

Output:

6. Write a SQL statement to create a table named jobs including columns job_id, job_title, min_salary, max_salary and check whether the max_salary amount exceeds the upper limit 25000.

Query:

mysql> create table tbl_jobs(job_id int, job_title varchar(15), min_salary int, max_salary int, check(max_salary > 25000));

Output:

Query OK, 0 rows affected (0.02 sec)

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mysal> desc tbl jobs;

Output:

4	+
Field Type	Null Key Default Extra
+	+
job_id int	YES NULL
job_title varcha	ar(15) YES NULL
min_salary int	YES NULL
max_salary int	YES NULL
+	+
4 rows in set (0.00	sec)

rows in set (0.00 sec)

7. Write a SQL statement to create a table named countries including columns country_id, country_name and region_id and make sure that no countries except Italy, India and China will be entered in the table.

Query:

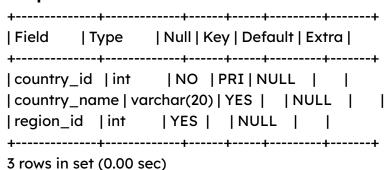
mysql> create table tbl_country (country_id int(5) primary key, country_name varchar(20) null, region_id int(10), check(country_name in ('Italy', 'India', 'China')));

Output:

Query OK, 0 rows affected, 2 warnings (0.02 sec)

Query:

mysql> desc tbl_country;



8. Write a SQL statement to create a table named job_histry including columns employee_id, start_date, end_date, job_id and department_id and make sure that the value against column end_date will be entered at the time of insertion to the format like '--/--'.

Query:

mysql> create table tbl_histry (employee_id int, start_date date, end_date date, department_id int, check(end_date like '--/---'));

Output:

Query OK, 0 rows affected (0.02 sec)

Query:

mysql> desc tbl_histry;

Output:

++	-+	+
Field Type Null Key Default	Extr	a
++	-+	+
employee_id int YES NULL		1
start_date date YES NULL		1
end_date date YES NULL		1
department_id int YES NULL		
+	-+	+
4 rows in set (0.00 sec)	-	

9. Write a SQL statement to create a table named countries including columns country_id,country_name and region_id and make sure that no duplicate data against column country_id will be allowed at the time of insertion.

Query:

mysql> create table tbl_country (country_id int(5) unique, country_name varchar(20) null, region_id int(10));

Output:

Query OK, 0 rows affected, 2 warnings (0.02 sec)

Query:

mysql> desc tbl_country;

Output:	
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4	4	+
Field	Type	Null Key Default Extra
+	+	+
country	_id int	YES UNI NULL
country	_name va	rchar(20) YES NULL
region_	id int	YES NULL
+	+	+
3 rows in	set (0.00 s	ec)

10. Write a SQL statement to create a table named jobs including columns job_id, job_title, min_salary and max_salary, and make sure that, the default value for job_title is blank and min_salary is 8000 and max_salary is NULL will be entered automatically at the time of insertion if no value assigned for the specified columns.

Query:

mysql> create table tbl_jobs(job_id int, job_title varchar(15) default ' ', min_salary int default 8000, max_salary int default Null);

Output:

Query OK, 0 rows affected (0.01 sec)

Query:

mysql> desc tbl_jobs;

Output:

+	+		+
Field Type	Null	Key	Default Extra
+	+		+
job_id int	YES	NULL	1 1
job_title varchar(15)	YES		1 1
min_salary int	YES	8000	1 1
max_salary int	YES	NULL	1 1
+	+		+
4 :+ (0 00)			

4 rows in set (0.00 sec)

11. Write a SQL statement to create a table named countries including columns country_id, country_name and region_id and make sure that the country_id column will be a key field which will not contain any duplicate data at the time of insertion.

Query:

mysql> create table tbl_country (country_id int(5) primary key, country_name varchar(20) not null, region_id int(10) not null);

Output:

Query OK, 0 rows affected, 2 warnings (0.03 sec)

Query:

mysql> desc tbl_country;

Output:

+	+	+	+-	+		
Field	Type	Null	Key	Default	Ext	ra
+	+	+	+-	+		
country_id	int	NO	PRI	NULL	1	1
country_name	varchar(20)	NO		NULL		
region_id	int	NO		NULL	- [
+	+	+	+-	+		
3 rows in set (0.00 se	ec)					

12. Write a SQL statement to create a table of countries including columns country_id, country_name and region_id and make sure that the column country_id will be unique and store an auto incremented value.

Query:

mysql> alter table tbl_country modify country_id int unique auto_increment;

Output:

Query OK, 0 rows affected, 1 warning (0.08 sec) Records: 0 Duplicates: 0 Warnings: 1

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mysql> desc tbl_country;

Output:

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+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| country_id | int | NO | PRI | NULL | auto_increment |
| country_name | varchar(20) | YES | | NULL | |
| region_id | int | YES | | NULL | |
| t------+
| 3 rows in set (0.00 sec)
```

13. Write a SQL statement to create a table of countries including columns country_id, country_name and region_id and make sure that the combination of columns country_id and region_id will be unique.

Query:

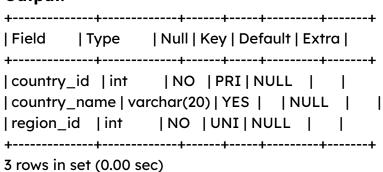
mysql> create table tbl_country (country_id int(5) unique not null, country_name varchar(20) null, region_id int(10) unique not null);

Output:

Query OK, 0 rows affected, 2 warnings (0.02 sec)

Query:

mysql> desc tbl_country;



14. Write a SQL statement to create a table job_history including columns employee_id, start_date, end_date, job_id and department_id and make sure that, the employee_id column does not contain any duplicate value at the time of insertion and the foreign key column job_id contain only those values which are exists in the jobs table.

Here is the structure of the table jobs;

+	Field	+ · -			Null		Key	 Default 	Extra
	JOB_ID		varchar(10)				PRI		
	JOB_TITLE		varchar(35)		NO			NULL	
	MIN_SALARY		decimal(6,0)		YES			NULL	
	MAX_SALARY		decimal(6,0)		YES			NULL	
+		+-		+-		+ -			++

Query:

mysql> create table tbl_histry (employee_id varchar(10) primary key default ",job_title varchar(35),min_salary decimal(6,0), max_salary decimal(6,0));

Output:

Query OK, 0 rows affected (0.02 sec)

Query:

mysql> desc tbl_histry;

