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# MySQL Create Table - Exercises, Practice, Solution

Last update on January 02 2024 12:47:04 (UTC/GMT +8 hours)

## MySQL Create Table [20 exercises with solution]

**1.** Write a MySQL query to create a simple table countries including columns country\_id, country\_name and region\_id.

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**2.** Write a MySQL query to create a simple table countries including columns country\_id, country\_name and region\_id which is already exists.

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**3.** Write a MySQL query to create the structure of a table dup\_countries similar to countries.

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**4.** Write a MySQL query to create a duplicate copy of countries table including structure and data by name dup\_countries.

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**5.** Write a MySQL query to create a table countries set a constraint NULL.

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**6.** Write a MySQL query to create a table named jobs including columns job\_id, job\_title, min\_salary, max\_salary and check whether the max\_salary amount exceeding the upper limit 25000.

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**7.** Write a MySQL query 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.

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**8.** Write a MySQL query to create a table named job\_histroy 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 '--/--/----'.

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**9.** Write a MySQL query 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.

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**10.** Write a MySQL query 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.

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**11.** Write a MySQL query 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.

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**12.** Write a MySQL query to create a table 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.

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**13.** Write a MySQL query to create a table countries including columns country\_id, country\_name and region\_id and make sure that the combination of columns country\_id and

country\_name and region\_id and make sure that the combination of columns country\_id and region\_id will be unique.

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**14.** Write a MySQL query 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	Type	Null	Key	Default	Extra
JOB_ID	varchar(10)	NO	PRI		
JOB_TITLE	varchar(35)	NO		NULL	
MIN_SALARY	decimal(6,0)	YES		NULL	
MAX_SALARY	decimal(6,0)	YES		NULL	

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**15.** Write a MySQL query to create a table employees including columns employee\_id, first\_name, last\_name, email, phone\_number hire\_date, job\_id, salary, commission, manager\_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 columns combined by department\_id and manager\_id columns contain only those unique combination values, which combinations are exists in the departments table.

Assume the structure of departments table below.

Field	Type	Null	Key	Default	Extra
DEPARTMENT_ID	decimal(4,0)	NO	PRI	0	
DEPARTMENT_NAME	varchar(30)	NO		NULL	
MANAGER_ID	decimal(6,0)	NO	PRI	0	
LOCATION_ID	decimal(4,0)	YES		NULL	

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**16.** Write a MySQL query to create a table employees including columns employee\_id, first\_name, last\_name, email, phone\_number hire\_date, job\_id, salary, commission, manager\_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 department\_id, reference by the column department\_id of departments table, can contain only those values which are exists in the departments table and another foreign key column job\_id, referenced by the column job\_id of jobs table, can contain only those values which are exists in the jobs table. The InnoDB Engine have been used to create the tables.

"A foreign key constraint is not required merely to join two tables. For storage engines other than InnoDB, it is possible when defining a column to use a REFERENCES tbl\_name(col\_name) clause, which has no actual effect, and serves only as a memo or comment to you that the column which you are currently defining is intended to refer to a column in another table." - Reference [dev.mysql.com](http://dev.mysql.com)

Assume that the structure of two tables departments and jobs.

Field	Type	Null	Key	Default	Extra
DEPARTMENT_ID	decimal(4,0)	NO	PRI	0	
DEPARTMENT_NAME	varchar(30)	NO		NULL	
MANAGER_ID	decimal(6,0)	YES		NULL	
LOCATION_ID	decimal(4,0)	YES		NULL	

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

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**17.** Write a MySQL query to create a table employees including columns employee\_id, first name, last name, job\_id, salary and make sure that, the employee\_id column does not

first\_name, last\_name, job\_id, salary 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, referenced by the column job\_id of jobs table, can contain only those values which are exists in the jobs table. The InnoDB Engine have been used to create the tables. The specialty of the statement is that, The ON UPDATE CASCADE action allows you to perform cross-table update and ON DELETE RESTRICT action reject the deletion. The default action is ON DELETE RESTRICT.

Assume that the structure of the table jobs and InnoDB Engine have been used to create the table jobs.

```
CREATE TABLE IF NOT EXISTS jobs (
JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
JOB_TITLE varchar(35) NOT NULL DEFAULT ' ',
MIN_SALARY decimal(6,0) DEFAULT 8000,
MAX_SALARY decimal(6,0) DEFAULT NULL
)ENGINE=InnoDB;
```

Field	Type	Null	Key	Default	Extra
JOB_ID	int(11)	NO	PRI	NULL	
JOB_TITLE	varchar(35)	NO			
MIN_SALARY	decimal(6,0)	YES		8000	
MAX_SALARY	decimal(6,0)	YES		NULL	

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**18.** Write a MySQL query to create a table employees including columns employee\_id, first\_name, last\_name, job\_id, salary 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, referenced by the column job\_id of jobs table, can contain only those values which are exists in the jobs table. The InnoDB Engine have been used to create the tables. The specialty of the statement is that, The ON DELETE CASCADE that lets you allow to delete records in the employees(child) table that refer to a record in the jobs(parent) table when the record in the parent table is deleted and the ON UPDATE RESTRICT actions reject any updates.

Assume that the structure of the table jobs and InnoDB Engine have been used to create the table jobs.

```
CREATE TABLE IF NOT EXISTS jobs (
JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
JOB_TITLE varchar(35) NOT NULL DEFAULT ' ',
MIN_SALARY decimal(6,0) DEFAULT 8000,
MAX_SALARY decimal(6,0) DEFAULT NULL
)ENGINE=InnoDB;
```

Field	Type	Null	Key	Default	Extra
JOB_ID	int(11)	NO	PRI	NULL	
JOB_TITLE	varchar(35)	NO			
MIN_SALARY	decimal(6,0)	YES		8000	
MAX_SALARY	decimal(6,0)	YES		NULL	

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**19.** Write a MySQL query to create a table employees including columns employee\_id, first\_name, last\_name, job\_id, salary 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, referenced by the column job\_id of jobs table, can contain only those values which are exists in the jobs table. The InnoDB Engine have been used to create the tables. The specialty of the statement is that, The ON DELETE SET NULL action will set the foreign key column values in the child table(employees) to NULL when the record in the parent table(jobs) is deleted, with a condition that the foreign key column in the child table must accept NULL values and the ON UPDATE SET NULL action resets the values in the rows in the child table(employees) to NULL values when the rows in the parent table(jobs) are updated.

Assume that the structure of two table jobs and InnoDB Engine have been used to create the table jobs.

```
CREATE TABLE IF NOT EXISTS jobs (
JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
JOB_TITLE varchar(35) NOT NULL DEFAULT ' ',
MIN_SALARY decimal(6,0) DEFAULT 8000,
MAX_SALARY decimal(6,0) DEFAULT NULL
)ENGINE=InnoDB;
```

Field	Type	Null	Key	Default	Extra
JOB_ID	int(11)	NO	PRI	NULL	
JOB_TITLE	varchar(35)	NO			
MIN_SALARY	decimal(6,0)	YES		8000	
MAX_SALARY	decimal(6,0)	YES		NULL	

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**20.** Write a MySQL query to create a table employees including columns employee\_id, first\_name, last\_name, job\_id, salary 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, referenced by the column job\_id of jobs table, can contain only those values which are exists in the jobs table. The InnoDB Engine have been used to create the tables. The specialty of the statement is that, The ON DELETE NO ACTION and the ON UPDATE NO ACTION actions will reject the deletion and any updates.

Assume that the structure of two table jobs and InnoDB Engine have been used to create the table jobs.

```
CREATE TABLE IF NOT EXISTS jobs (
JOB_ID integer NOT NULL UNIQUE PRIMARY KEY,
JOB_TITLE varchar(35) NOT NULL DEFAULT ' ',
MIN_SALARY decimal(6,0) DEFAULT 8000,
MAX_SALARY decimal(6,0) DEFAULT NULL
)ENGINE=InnoDB;
```

Field	Type	Null	Key	Default	Extra
JOB_ID	int(11)	NO	PRI	NULL	
JOB_TITLE	varchar(35)	NO			
MIN_SALARY	decimal(6,0)	YES		8000	
MAX_SALARY	decimal(6,0)	YES		NULL	

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