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Date: 28.09.2023

MySQL Create Table [20 exercises with solution]

1. Write a SQL statement to create a simple table countries including columns country id, country name and region id.

```
mysql> create table tbl_countries(country_id int(5),country_name varchar(20),region_id int(5));
Query OK, 0 rows affected, 2 warnings (0.02 sec)
mysql> desc tbl countries;
 Field
                             | Null | Key | Default | Extra
 country_id
                              YES
               int
                                           NULL
 country_name
                varchar(20)
                              YES
                                           NULL
 region_id
               int
                                           NULL
 rows in set (0.00 sec)
```

2. Write a SQL statement to create a simple table countries including columns country id country name and region id which is already exists.

```
mysql> create table tbl_countries(country_id int(5),country_name varchar(20),region_id int(5));
ERROR 1050 (42S01): Table 'tbl_countries' already exists
```

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

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

```
mysql> create table tbl_dup_countries as select * from tbl_countries; ERROR 1050 (42S01): Table 'tbl_dup_countries' already exists
```

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

```
mysql> alter table tbl countries modify country id int(5) NOT NULL;
Query OK, 0 rows affected, 1 warning (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> alter table tbl_countries modify country_name varchar(20) NOT NULL;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> alter table tbl countries modify region id int(5) NOT NULL;
Query OK, 0 rows affected, 1 warning (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> desc tbl countries;
 Field
               Type
                             Null | Key | Default | Extra
 country_id
                int
                              NO
                                           NULL
 country_name
                varchar(20)
                              NO
                                           NULL
 region id
               int
                              NO
                                           NULL
 rows in set (0.00 sec)
```

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 exceeding the upper limit 25000.

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.

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 '--/---'.

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.

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.

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.

12. Write a SQL statement 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.

13. Write a SQL statement 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 region id will be unique.

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 | 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 | |
| +-----+
```

```
/sql> create table tbl_jobs1(job_id varchar(10) NOT NULL UNIQUE,job_title varchar(10) NOT NULL default '',min_salary decimal(6,0) default 8000,max_salary decimal(6,0) default 8000,max_salary decimal(6,0) default NULL);
uery OK, 0 rows affected (0.02 sec)
 sql> create table tbl_job_history(emp_id decimal(6,0) NOT NULL primary key,start_date date not null, end_date date NOT NULL,job_id varchar(10) not NULL,depatent_id decimal(4,0) default null,foreign key(job_id) references tbl_jobs1(job_id));
ery OK, 0 rows affected (0.03 sec)
/sql> desc tbl_jobs1;
                               Null | Key | Default | Extra
                  varchar(10) | NO
varchar(10) | NO
decimal(6,0) | YES
                                                            NULL
max salary
rows in set (0.00 sec)
/sql> desc tbl_job_history;
                                          | Null | Key | Default | Extra
Field
emp_id
                                                                NULL
start_date
end_date
                      date
date
                                          NO
NO
NO
YES
                                                               NULL
NULL
                                                       MUL İ
department id | decimal(4.0)
rows in set (0.00 sec)
```

15. Write a SQL statement 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.

```
| 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 |
mysql> create table tbl_departments(department_id decimal(4,0) not null primary key default
   -> department_name varchar(30) not null,
   -> manager_id decimal(6,0) default null,
   -> location_id decimal(4,0) default NULL);
Query OK, 0 rows affected (0.02 sec)
mysql> desc tbl_departments;
 Field
                           | Null | Key | Default | Extra
               Type
 department id
                decimal(4,0)
                            NO
 department_name
                varchar(30)
                             NO
                                       NULL
                decimal(6,0)
                            YES
 manager_id
                                        NULL
               decimal(4,0)
 location_id
                           | YES
                                        NULL
 rows in set (0.00 sec)
         CREATE TABLE IF NOT EXISTS employees (
mysql>
     -> EMPLOYEE ID decimal(6,0) NOT NULL PRIMARY KEY,
    -> FIRST_NAME varchar(20) DEFAULT NULL,
    -> LAST_NAME varchar(25) NOT NULL,
     -> EMAIL varchar(25) NOT NULL,
     -> PHONE NUMBER varchar(20) DEFAULT NULL,
    -> HIRE DATE date NOT NULL,
     -> JOB ID varchar(10) NOT NULL,
    -> SALARY decimal(8,2) DEFAULT NULL,
    -> COMMISSION_PCT decimal(2,2) DEFAULT NULL,
    -> MANAGER_ID decimal(6,0) DEFAULT NULL,
    -> DEPARTMENT ID decimal(4,0) DEFAULT NULL,
     -> FOREIGN KEY(DEPARTMENT ID, MANAGER ID)
     -> REFERENCES tbl departments(DEPARTMENT ID, MANAGER ID)
     -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.03 sec)
```

16. Write a SQL statement 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

Assume that the structure of two tables departments and jobs.

```
| Null | Key | Default | Extra |
| Field
           Type
+-----+
| DEPARTMENT ID | decimal(4,0) | NO | PRI | 0
| DEPARTMENT NAME | varchar(30) | NO | NULL
                  | decimal(6,0) | YES | NULL |
| MANAGER ID
| LOCATION ID | decimal(4,0) | YES | | NULL |
mysql> create table tbl_departments(department_id decimal(4,0) not null primary key default
    -> department_name varchar(30) not null,
    -> manager_id decimal(6,0) default null,
    -> location_id decimal(4,0) default NULL);
Query OK, 0 rows affected (0.02 sec)
mysql> desc tbl departments;
                             | Null | Key | Default | Extra
 Field
                Type
                 decimal(4,0)
  department id
                             NO
                                   PRI 0
  department_name
                 varchar(30)
                              NO
                                          NULL
                              YES
  manager_id
                 decimal(6,0)
                                          NULL
                 decimal(4,0)
  location_id
                              YES
                                          NULL
 rows in set (0.00 sec)
```

```
mysql> create table jobs (
   -> job_id varchar(10) NOT NULL PRIMARY KEY,
   -> job_title varchar(35) NOT NULL,
   -> min_salary decimal(6,0) default NULL,
   -> max_salary decimal(6,0) default NULL
Query OK, 0 rows affected (0.03 sec)
mysql> show tables;
Tables_in_sal |
 departments
 jobs
2 rows in set (0.00 sec)
mysql> desc jobs;
Field | Type | Null | Key | Default | Extra
 job_id
            varchar(10)
                          NO
                                  PRI NULL
job_title | varchar(35)
                            NO
                                        NULL
min_salary | decimal(6,0) | YES
                                        NULL
| max_salary | decimal(6,0) | YES |
                                       NULL
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS employees (
   -> EMPLOYEE_ID decimal(6,0) NOT NULL PRIMARY KEY,
   -> FIRST_NAME varchar(20) DEFAULT NULL,
   -> LAST_NAME varchar(25) NOT NULL,
   -> EMAIL varchar(25) NOT NULL,
   -> PHONE_NUMBER varchar(20) DEFAULT NULL,
   -> HIRE DATE date NOT NULL,
   -> JOB_ID varchar(10) NOT NULL,
   -> SALARY decimal(8,2) DEFAULT NULL,
   -> COMMISSION_PCT decimal(2,2) DEFAULT NULL,
   -> MANAGER ID decimal(6,0) DEFAULT NULL,
   -> DEPARTMENT_ID decimal(4,0) DEFAULT NULL,
   -> FOREIGN KEY(DEPARTMENT ID)
   -> REFERENCES departments(DEPARTMENT_ID),
   -> FOREIGN KEY(JOB_ID)
   -> REFERENCES jobs(JOB ID)
   -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.03 sec)
nysql> show tables;
 Tables_in_sal
 departments
 employees
 jobs
 rows in set (0.00 sec)
```

Field	Туре	Null	Key	Default	Extra
EMPLOYEE ID	decimal(6,0)	NO NO	PRI	NULL	
FIRST_NAME	varchar(20)	YES	i	NULL	i i
LAST_NAME	varchar(25)	NO	İ	NULL	i i
EMAIL	varchar(25)	NO		NULL	i i
PHONE_NUMBER	varchar(20)	YES		NULL	i i
HIRE_DATE	date	NO		NULL	i i
JOB_ID	varchar(10)	NO	MUL	NULL	i i
SALARY	decimal(8,2)	YES		NULL	
COMMISSION_PCT	decimal(2,2)	YES		NULL	l i
MANAGER_ID	decimal(6,0)	YES		NULL	ĺ
DEPARTMENT_ID	decimal(4,0)	YES	MUL	NULL	ĺ

17. Write a SQL statement 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 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 |
+-----+
```

```
mysql> create table tbl 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;
Query OK, 0 rows affected (0.02 sec)
mysql> show tables;
 Tables_in_sal
 departments
 employees
 jobs
 tbl_jobs
 rows in set (0.00 sec)
mysql> desc tbl jobs;
 Field
                            | Null | Key | Default | Extra
              Type
 job id
              int
                             NO
                                     PRI |
                                           NULL
 job title
              varchar(35)
                             NO
 min_salary | decimal(6,0)
                             YES
                                           8000
 max_salary | decimal(6,0)
                            YES
                                           NULL
 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS tbl_employees (
    -> EMPLOYEE_ID decimal(6,0) NOT NULL PRIMARY KEY,
    -> FIRST_NAME varchar(20) DEFAULT NULL,
    -> LAST_NAME varchar(25) NOT NULL,
    -> EMAIL varchar(25) NOT NULL,
    -> PHONE_NUMBER varchar(20) DEFAULT NULL,
    -> HIRE_DATE date NOT NULL,
    -> JOB ID varchar(10) NOT NULL,
    -> SALARY decimal(8,2) DEFAULT NULL,
   -> COMMISSION_PCT decimal(2,2) DEFAULT NULL,
   -> MANAGER_ID decimal(6,0) DEFAULT NULL,
    -> DEPARTMENT_ID decimal(4,0) DEFAULT NULL,
   -> FOREIGN KEY(DEPARTMENT_ID)
   -> REFERENCES departments(DEPARTMENT_ID),
   -> FOREIGN KEY(JOB_ID)
   -> REFERENCES jobs(JOB_ID)
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.03 sec)
mysql> show tables;
 Tables_in_sal
 departments
 employees
 jobs
 tbl_employees
 tbl_jobs
5 rows in set (0.00 sec)
```

ield	Туре	Null	Key	Default	Extra
EMPLOYEE_ID	decimal(6,0)	NO NO	PRI	NULL	
FIRST_NAME	varchar(20)	YES	ĺ	NULL	i i
LAST_NAME	varchar(25)	NO	İ	NULL	i i
EMAIL	varchar(25)	NO	ĺ	NULL	i i
PHONE_NUMBER	varchar(20)	YES		NULL	
HIRE_DATE	date	NO		NULL	
JOB_ID	varchar(10)	NO	MUL	NULL	
SALARY	decimal(8,2)	YES		NULL	
COMMISSION_PCT	decimal(2,2)	YES		NULL	
MANAGER_ID	decimal(6,0)	YES		NULL	
DEPARTMENT_ID	decimal(4,0)	YES	MUL	NULL	

18. Write a SQL statement 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
+	+	+

```
mysql> create table tbl jobas (
   -> job_id int(11) 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;
Query OK, 0 rows affected, 1 warning (0.05 sec)
mysql> show tables;
 Tables_in_sal
 departments
 employees
 jobs
 tbl_employees
 tbl jobas
 tbl jobs
6 rows in set (0.00 sec)
mysql> desc tbl jobas;
 Field
              Type
                            | Null | Key | Default | Extra
 job id
              int
                             NO
                                    PRI
                                          NULL
 job title
             varchar(35)
                             NO
 min_salary | decimal(6,0)
                             YES
                                          8000
 max_salary | decimal(6,0)
                             YES
                                          NULL
4 rows in set (0.00 sec)
```

```
-> FIRST NAME varchar(20) DEFAULT NULL,
    -> LAST NAME varchar(25) NOT NULL,
    -> JOB ID INTEGER NOT NULL,
    -> SALARY decimal(8,2) DEFAULT NULL,
    -> FOREIGN KEY(JOB ID)
    -> REFERENCES tbl jobs(JOB ID)
    -> ON DELETE CASCADE ON UPDATE RESTRICT
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected (0.02 sec)
mysql> show tables;
 Tables in sal
 departments
 employees
 jobs
 tbl employeees
 tbl employeeesa
 tbl_employees
 tbl jobas
 tbl jobs
8 rows in set (0.00 sec)
mysql> desc tbl_employeeesa;
 Field
                             Null | Key | Default | Extra
              Type
 EMPLOYEE ID | decimal(6,0)
                                          NULL
                             NO
                                    PRI
               varchar(20)
 FIRST NAME
                             YES
                                          NULL
 LAST NAME
               varchar(25)
                              NO
                                          NULL
 JOB ID
               int
                                    MUL
                             NO
                                          NULL
               decimal(8,2)
 SALARY
                             YES
                                          NULL
5 rows in set (0.00 sec)
```

mysql> CREATE TABLE IF NOT EXISTS tbl employeeesa (

-> EMPLOYEE_ID decimal(6,0) NOT NULL PRIMARY KEY,

19. Write a SQL statement 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 |
+-----+
```

```
mysql> create table tbl_jobase (
   -> 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;
Query OK, 0 rows affected (0.03 sec)
mysql> show tables;
 Tables_in_sal
 departments
 employees
 jobs
 tbl_employeees
 tbl employeeesa
 tbl_employees
 tbl jobas
 tbl jobase
 tbl_jobs
9 rows in set (0.00 sec)
mysql> desc tbl jobase;
Field
           Type
                          | Null | Key | Default | Extra
 job_id
            int
                                  | PRI | NULL
                            NO
            varchar(35)
 job title
                           NO
 min_salary | decimal(6,0)
                            YES
                                         8000
 max_salary | decimal(6,0) | YES
                                         NULL
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS employees (
   -> EMPLOYEE_ID decimal(6,0) NOT NULL PRIMARY KEY,
   -> FIRST_NAME varchar(20) DEFAULT NULL,
   -> LAST_NAME varchar(25) NOT NULL,
   -> JOB_ID INTEGER,
   -> SALARY decimal(8,2) DEFAULT NULL,
   -> FOREIGN KEY(JOB_ID)
   -> REFERENCES jobs(JOB ID)
   -> ON DELETE SET NULL
    -> ON UPDATE SET NULL
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected, 1 warning (0.01 sec)
mysql> show tables;
 Tables_in_sal
 departments
 employees
 jobs
 tbl employeees
 tbl employeeesa
 tbl_employees
 tbl jobas
 tbl_jobase
 tbl_jobs
9 rows in set (0.00 sec)
```

Field	Туре	Null	Key	Default	Extra
EMPLOYEE ID	decimal(6,0)	NO	PRI	NULL	
FIRST NAME	varchar(20)	YES		NULL	i
LAST NAME	varchar(25)	NO	i	NULL	i i
EMAIL	varchar(25)	NO	i i	NULL	i i
PHONE_NUMBER	varchar(20)	YES		NULL	j i
HIRE_DATE	date	NO	j i	NULL	j j
JOB_ID	varchar(10)	NO	MUL	NULL	j j
SALARY	decimal(8,2)	YES		NULL	
COMMISSION_PCT	decimal(2,2)	YES		NULL	
MANAGER_ID	decimal(6,0)	YES		NULL	l i
DEPARTMENT_ID	decimal(4,0)	YES	MUL	NULL	

20. Write a SQL statement 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 |
```

```
mysql> create table tbl_jonds (
   -> 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;
Query OK, 0 rows affected (0.02 sec)
mysql> show tables;
 Tables in sal
 departments
 employees
 iobs
 tbl employeees
 tbl employeeesa
 tbl employees
 tbl jobas
 tbl jobase
 tbl_jobs
 tbl_jonds
10 rows in set (0.00 sec)
mysql> desc tbl jonds;
                            | Null | Key | Default | Extra
 Field
             Type
 job_id
             int
                             NO
                                    PRI
                                          NULL
 job_title
             varchar(35)
                             NO
 min salary
             decimal(6,0)
                             YES
                                          8000
 max_salary | decimal(6,0)
                             YES
                                          NULL
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE IF NOT EXISTS employees (
    -> EMPLOYEE_ID decimal(6,0) NOT NULL PRIMARY KEY,
    -> FIRST_NAME varchar(20) DEFAULT NULL,
   -> LAST_NAME varchar(25) NOT NULL,
   -> JOB_ID INTEGER NOT NULL,
    -> SALARY decimal(8,2) DEFAULT NULL,
   -> FOREIGN KEY(JOB_ID)
   -> REFERENCES jobs(JOB_ID)
   -> ON DELETE NO ACTION
   -> ON UPDATE NO ACTION
    -> )ENGINE=InnoDB;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> show tables;
 Tables in sal
 departments
 employees
 jobs
 tbl employeees
 tbl_employeeesa
 tbl_employees
 tbl_jobas
 tbl_jobase
 tbl jobs
 tbl_jonds
10 rows in set (0.00 sec)
```

Field	Type	Null	Key	Default Extra
EMPLOYEE ID	decimal(6,0)	NO NO	PRI	NULL
FIRST_NAME	varchar(20)	YES	į	NULL
LAST_NAME	varchar(25)	NO	į	NULL
EMAIL	varchar(25)	NO	ĺ	NULL
PHONE_NUMBER	varchar(20)	YES	ĺ	NULL
HIRE_DATE	date	NO	ĺ	NULL
JOB_ID	varchar(10)	NO	MUL	NULL
SALARY	decimal(8,2)	YES		NULL
COMMISSION_PCT	decimal(2,2)	YES		NULL
MANAGER_ID	decimal(6,0)	YES		NULL
DEPARTMENT_ID	decimal(4,0)	YES	MUL	NULL