1.Create Table

A .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.

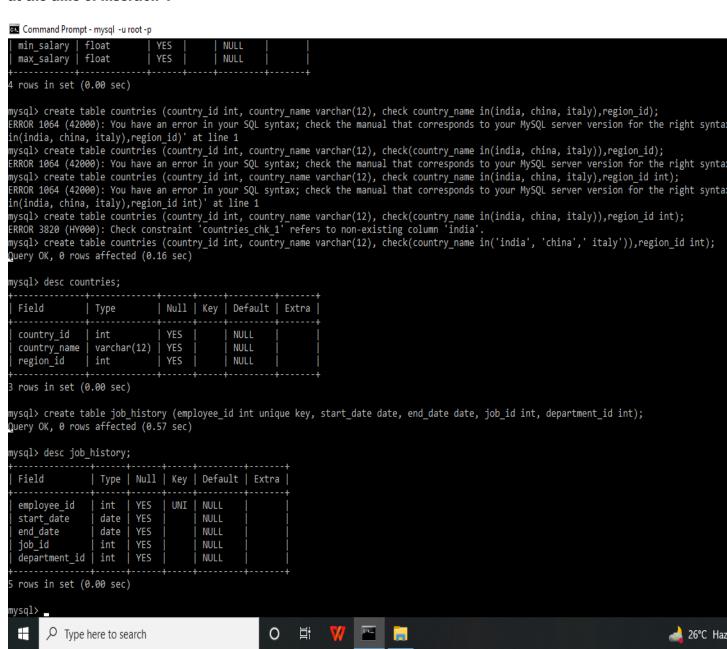
```
Command Prompt - mysql -u root -p
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.31 MySQL Community Server - GPL
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
  employee_job
  empoloye
  information_schema
 mysql
  performance_schema
 rows in set (0.00 sec)
mysql> use employee_job;
Database changed
mysql> create table jobs (job_id int, job_title varchar(20),min_salary float,max_salary float,check(max_salary<=2500));
ERROR 1050 (42S01): Table 'jobs' already exists
mysql> create table job (job_id int, job_title varchar(20),min_salary float,max_salary float,check(max_salary<=2500));
Query OK, 0 rows affected (0.17 sec)
mysql> desc job;
 Field
                            | Null | Key | Default | Extra
             Type
  job_id
               int
                              YES
                                           NULL
  job_title
               varchar(20)
                                           NULL
 min_salary
                              YES
               float
                                           NULL
                             YES
 max_salary | float
                                           NULL
4 rows in set (0.00 sec)
mysql>
        Type here to search
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b. 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.

c.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 .



2.Alter Table

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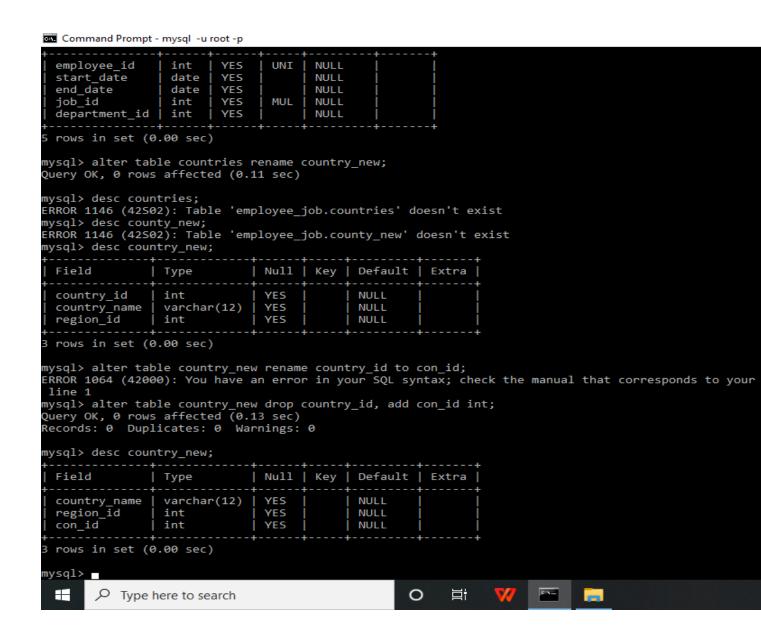
a.Write a SQL statement to add a foreign key constraint named fk_job_id on job_id column of job_history table referencing to the primary key job_id of jobs table.

jobs table. Command Prompt - mysql -u root -p employee id YES UNI int NULL start_date date NULL end_date date | YES NULL job_id NULL int YES NULL department_id | int 5 rows in set (0.00 sec) mysql> alter table job_history; Query OK, 0 rows affected (0.01 sec) mysql> add constraint fk job id; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the rig t fk_job_id' at line 1 mysql> alter table job_history(add constraint fk_job_id); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the rig nt fk job id)' at line 1 mysql> alter table job_history add constraint fk_job foreign key(job_id) referencesjobs(job_id); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the rig s(job_id)' at line 1 mysql> alter table job_history add constraint fk_job foreign key(job_id) references jobs(job_id); ERROR 1822 (HY000): Failed to add the foreign key constraint. Missing index for constraint 'fk_job' in the referenced table 'jobs' mysql> alter table jobs add constraint pk_jobs primary key(job_id); Query OK, 0 rows affected (0.26 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> alter table job_history add constraint fk_job foreign key(job_id) references jobs(job_id); Query OK, 0 rows affected (0.44 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> desc job_history; | Type | Null | Key | Default | Extra Field employee_id int YES UNI | NULL start date date | YES NULL end date date | YES NULL job id int YES NULL department id | int YES NULL rows in set (0.00 sec) mysql>

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b. Write a SQL statement to rename the table countries to country_new.

c.Write a SQL statement to change the name of the column country_id to con_id, keeping the data type and size same.



3.DML Statement

a.Write a SQL statement to insert a record with your own value into the table countries against each columns.

```
Command Prompt - mysql -u root -p
4 rows in set (0.08 sec)
mysql> insert into country_new values('A','india','100');
ERROR 1366 (HY000): Incorrect integer value: 'india' for column 'region_id' at row 1
mysql> insert into country_new values('india','100','1');
Query OK, 1 row affected (0.12 sec)
mysql> insert into country_new values('china','300','3');
Query OK, 1 row affected (0.02 sec)
mysql> insert into country_new values('usa','1000','2');
ERROR 3819 (HY000): Check constraint 'country_new_chk_1' is violated.
mysql> insert into country_new values('italy','1000','2');
ERROR 3819 (HY000): Check constraint 'country new chk 1' is violated.
mysql> insert into country_new values('italy','100','2');
ERROR 3819 (HY000): Check constraint 'country_new_chk_1' is violated.
mysql> desc country_new;
 Field
               Type
                             | Null | Key | Default | Extra
                 varchar(12) YES
                                            NULL
  country name
  region_id
                 int
                               YES
                                            NULL
  con_id
                 int
                               YES
                                            NULL
 rows in set (0.00 sec)
mysql> _
       Type here to search
                                              0
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