

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.

```
CREATE TABLE jobs (  
  job_id INT PRIMARY  
  KEY, job_title  
  VARCHAR(50),  
  
  min_salary  
  DECIMAL(10,2), max_salary  
  DECIMAL(10,2),  
  
  CONSTRAINT max_salary_limit CHECK (max_salary <= 25000)  
);
```

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.

```
CREATE TABLE countries (  
  country_id INT PRIMARY  
  KEY, country_name  
  VARCHAR(50), region_id  
  INT,  
  
  CONSTRAINT check_country_name CHECK (country_name IN ('Italy',  
  'India', 'China'))  
);
```

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.

```
CREATE TABLE job_history
  (employee_id INT,
   start_date DATE,

   end_date DATE,
   job_id
   VARCHAR(10),
   department_id INT,

   CONSTRAINT unique_employee_id UNIQUE (employee_id)
);
```

2. Alter Table

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.

```
ALTER TABLE job_history
ADD CONSTRAINT fk_job_id
FOREIGN KEY (job_id) REFERENCES jobs(job_id);
```

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

```
ALTER TABLE countries
RENAME 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.

```
ALTER TABLE countries
RENAME COLUMN country_id TO con_id;
```

3.DML Statement

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

```
INSERT INTO countries (con_id, country_name, region_id)
VALUES (1001, 'UAE', 3);
```