

Alter table Queries

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

Here is the list of tables.

tablename	tableowner
orders	postgres
employees	postgres
job_history	postgres
jobs	postgres
locations	postgres
regions	postgres
countries	postgres
(7 rows)	

2. Write a SQL statement to add a column region_id to the table locations.

Here is the structure of the table locations.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	

3. Write a SQL statement to change the data type of the column region_id to text in the table locations.

Here is the structure of the table locations.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	
region_id	integer	

4. Write a SQL statement to drop the column city from the table locations.

Here is the structure of the table locations.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	
region_id	text	

5. Write a SQL statement to change the name of the column `state_province` to `state`, keeping the data type and size same.

Here is the structure of the table `locations`.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	
region_id	text	

6. Write a SQL statement to add a primary key for the columns `location_id` in the `locations` table.

Here is the structure of the table `locations`.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	

7. Write a SQL statement to add a primary key for a combination of columns `location_id` and `country_id`.

Here is the structure of the table `locations`.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	

8. Write a SQL statement to drop the existing primary from the table locations on a combination of columns location_id and country_id.

Here is the structure of the table locations.

```
postgres=# \d locations
```

Column	Type	Modifiers
location_id	numeric(4,0)	not null
street_address	character varying(40)	
postal_code	character varying(12)	
city	character varying(30)	
state_province	character varying(25)	
country_id	character varying(2)	not null

Indexes:

```
"locations_pkey" PRIMARY KEY, btree (location_id, country_id)
```

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

Here is the structure of the table jobs and job_history.

```
postgres=# \d jobs
```

Column	Type	Modifiers
job_id	character varying(10)	not null
job_title	character varying(35)	
min_salary	numeric(6,0)	
max_salary	numeric(6,0)	

Indexes:

```
"jobs_pkey" PRIMARY KEY, btree (job_id)
```

```
postgres=# \d job_history
```

Column	Type	Modifiers
employee_id	numeric(6,0)	
start_date	date	
end_date	date	
job_id	character varying(10)	
department_id	numeric(4,0)	

10. 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.

Here is the structure of the table `jobs` and `job_history`.

```
postgres=# \d jobs
```

Column	Type	Modifiers
job_id	character varying(10)	not null
job_title	character varying(35)	
min_salary	numeric(6,0)	
max_salary	numeric(6,0)	

Indexes:

```
"jobs_pkey" PRIMARY KEY, btree (job_id)
```

```
postgres=# \d job_history
```

Column	Type	Modifiers
employee_id	numeric(6,0)	
start_date	date	
end_date	date	
job_id	character varying(10)	
department_id	numeric(4,0)	

11. Write a SQL statement to drop the existing foreign key `fk_job_id` from `job_history` table on `job_id` column which is referencing to the `job_id` of `jobs` table.

Here is the structure of the table `job_history`.

```
postgres=# \d job_history
```

Column	Type	Modifiers
employee_id	numeric(6,0)	
start_date	date	
end_date	date	
job_id	character varying(10)	
department_id	numeric(4,0)	

Foreign-key constraints:

```
"fk_job_id" FOREIGN KEY (job_id) REFERENCES jobs(job_id) ON UPDATE RESTRICT ON DELETE CASCADE
```

12. Write a SQL statement to add an index named `index_job_id` on `job_id` column in the table `job_history`.

Here is the structure of the table job_history.

```
postgres=# \d job_history
```

Column	Type	Modifiers
employee_id	numeric(6,0)	
start_date	date	
end_date	date	
job_id	character varying(10)	
department_id	numeric(4,0)	

13. Write a SQL statement to drop the index indx_job_id from job_history table.

Here is the structure of the job_history and index file of the table job_history.

```
postgres=# \d job_history
```

Column	Type	Modifiers
employee_id	numeric(6,0)	
start_date	date	
end_date	date	
job_id	character varying(10)	not null
department_id	numeric(4,0)	

Indexes:

```
"index_job_id" PRIMARY KEY, btree (job_id)
```