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

```
create database Assignment1;
use Assignment1;
create table countries(
country_id int NOT NULL unique,
country_name varchar(20) NOT NULL UNIQUE,
region_id varchar(20) NOT NULL
);
insert into countries(country_id, country_name, region_id)
values
(101,"India","IN91"),
(102,"USA","US14"),
(103,"Russia","RS10"),
(104,"Canada","CN54"),
(105,"Japan","JP26");
```

2. Write a SQL statement to create a simple table of countries including columns country_id,country_name and region_id which already exists.

```
create table countries(
country_id int NOT NULL unique,
country_name varchar(20) NOT NULL UNIQUE,
region_id varchar(20) NOT NULL
);
```



Error as countries already exist.

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

```
create table dup_countries(
country_id int NOT NULL unique,
country_name varchar(20) NOT NULL UNIQUE,
region_id varchar(20) NOT NULL
);
```

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

To Create a copy of table:

CREATE TABLE new table LIKE old table;

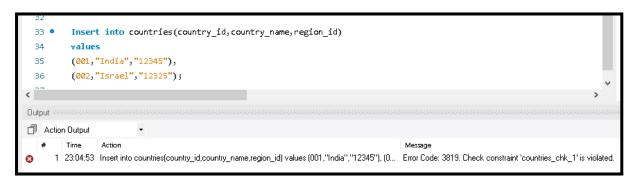
INSERT INTO new table SELECT * FROM old table;

INSERT INTO dup countries SELECT * FROM countries;

5. Write a SQL statement to create a table where countries set a constraint NULL. create table null countries(country id int NULL, country name varchar(20) NULL, region id varchar(20) NULL); 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 exceeds the upper limit 25000. create table jobs(job id int not null, job title varchar(20) not null, min salary int not null, max salary int not null check(max salary<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. create table countries(country id int NOT NULL, country name varchar(20) NOT NULL check(country name in ("India", "China", "Italy")),

region id varchar(20) NOT NULL

);



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 '--/---'.

```
create table job_histry(
employee_id int not null,
start_date date not null,
end_date date not null check(end_date like '--/--'),
job_id int not null,
department_id varchar(20) not null
);
```

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.

```
create table countries(
country_id int NOT NULL,
country_name varchar(20) NOT NULL UNIQUE,
region id varchar(20) NOT NULL
```

```
);
```

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.

```
create table jobs(
job_id int NOT NULL,
job_title varchar(20) NOT NULL default '',
min_salary int NOT NULL default 8000,
max_salary int default NULL
);
```

ALTER COMMAND

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

alter table countries

rename country new

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

alter table locations

add region id varchar(20) not null;

3. Write a SQL statement to add a column ID as the first column of the table locations.

alter table locations

add ID int NOT NULL;

4. Write a SQL statement to add a column region_id after state_province to the table locations.

alter table locations

add region id varchar(20) not null;

5. Write a SQL statement to change the data type of the column country_id to integer in the table locations

alter table locations

modify country id int;

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

Alter table locations

Drop column city;

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

Alter table locations

Change column state province state varchar(20)

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

Alter table locations

Add primary key (location id)

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

Alter table locations

Add primary key (location_id,country_id);

10. Write a SQL statement to drop the existing primary from the table locations on a combination of columns location id and country id.

Alter table locations

Drop Primary Key;

11. Write a SQL statement to add a foreign key on the job_id column of the job history table referencing the primary key job id of the jobs table.

Alter table job history

Add Foreign Key (job_id) Reference jobs (job_id)

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

Alter table job_history

ADD CONSTRAINT Foreign Key (job id) Reference jobs (job id)

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

Alter table job_history

Drop Foreign Key fk job id;

14. Write a SQL statement to add an index named indx_job_id on job_id column in the table job_history.

Alter table job history

Add Index indx job on job history(indx job id)

15. Write a SQL statement to drop the index indx job id from job history table.

Alter table job history

Drop Index indx job id on job history