

1. 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 job(  
    job_id INT,  
    job_title VARCHAR(20) NOT NULL DEFAULT '',  
    min_salary NUMERIC(7,0) DEFAULT NULL,  
    PRIMARY KEY(job_id)  
);
```

```
SELECT * FROM job;
```

2. Write a SQL statement to create and insert a record into the table countries to ensure that the country_id and the region_id combination will be entered once in the table.

```
CREATE TABLE country(  
    country_id INT NOT NULL UNIQUE,  
    country_name VARCHAR(20) NOT NULL,  
    region_id INT NOT NULL UNIQUE  
);
```

```
CREATE TABLE country1(  
    country_id INT,  
    country_name VARCHAR(20) NOT NULL,  
    region_id INT,  
    PRIMARY KEY (country_id, region_id)  
);
```

3. Write a SQL statement to create and insert records into the table countries to ensure that the country_id column will not contain any duplicate data and this will be automatically incremented and the column country_name will be filled up by 'N/A' if no value assigned to that column.

```
CREATE TABLE countries (  
  
    country_id SERIAL UNIQUE,  
    country_name VARCHAR(20) DEFAULT 'N/A',  
    region_id INT  
);
```

```
SELECT *FROM countries;
```

```
INSERT INTO countries
VALUES(1,123),
      (2,142);
```

```
UPDATE countries
SET country_name='India'
WHERE country_id=2;
```

```
INSERT INTO countries (region_id)
VALUES(135);
```

```
-ERROR:  duplicate key value violates unique constraint
"countries_country_id_key"
DETAIL:  Key (country_id)=(1) already exists.
SQL state: 23505
```

```
INSERT INTO countries (region_id)
VALUES(135);
```

```
-ERROR:  duplicate key value violates unique constraint
"countries_country_id_key"
DETAIL:  Key (country_id)=(2) already exists.
SQL state: 23505
```

```
INSERT INTO countries (region_id)
VALUES(135);
```

```
-1      NULL  123
2      "India" 142
3      "N/A"  135
```

```
INSERT INTO countries (country_name,region_id)
VALUES('BRAZIL',135);
```

```
-1      NULL      123
2      "India"    142
3      "N/A"      135
4      "BRAZIL"   135
```