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Assingment-2

Q1.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.

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

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Q.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.

** Here we provide country id:

```
postgres=# create table countries(country_id serial unique,country_name varchar(20) default 'N/A',region_id integer);
CREATE TABLE
postgres=# select *from countries;
country_id | country_name | region_id
(0 rows)
postgres=# \d countries;
   Table "public.countries"

Column | Type | Collation | Nullable |
country_id | integer | not null | nextval('countries_country_id_seq'::regclass)
country_name | character varying(20) | | 'N/A'::character varying
region_id | integer | |
region_id | integer |
Indexes:
   "countries country id key" UNIQUE CONSTRAINT, btree (country id)
postgres=# insert into countries(country id, region id)values(1,123), (2,142);
INSERT 0 2
postgres=# select *from countries;
country id | country name | region id
-----
       1 | <u>N/A</u> | 123
2 | <u>N/A</u> | 142
(2 rows)
postgres=# update countries set country_name='India' where country_id=2;
UPDATE 1
postgres=# select *from countries;
country_id | country_name | region_id
        1 | N/A | 123
2 | <u>India</u> | 142
(2 rows)
```

^{**}If we want add region Id without giving country id it is checking whether the country id is duplicated or not if it is already there it will add the record to next country id.

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```
postgres=# 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.
postgres=# 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.
postgres=# insert into countries (region_id) values(135);
INSERT 0 1
postgres=# select *from countries;
country_id | country_name | region_id
-----
         1 | N/A | 123
2 | India | 142
3 | N/A | 135
(3 rows)
postgres=# insert into countries (country_name, region_id) values('Brazil', 135);
INSERT 0 1
postgres=# select *from countries;
country_id | country_name | region_id
         1 | N/A | 123
2 | India | 142
3 | N/A | 135
4 | Brazil | 135
(4 rows)
```