**Q.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.**

assignment\_1=# create table jobs (job\_id serial primary key, job\_title text, min\_salary integer, max\_salary integer);

CREATE TABLE

assignment\_1=# \d jobs

Table "public.jobs"

Column | Type | Collation | Nullable | Default

------------+---------+-----------+----------+--------------------------------------

job\_id | integer | | not null | nextval('jobs\_job\_id\_seq'::regclass)

job\_title | text | | |

min\_salary | integer | | |

max\_salary | integer | | |

assignment\_1=# alter table jobs alter column min\_salary set default 8000

assignment\_1-# ;

ALTER TABLE

assignment\_1=# \d jobs

Table "public.jobs"

Column | Type | Collation | Nullable | Default

------------+---------+-----------+----------+--------------------------------------

job\_id | integer | | not null | nextval('jobs\_job\_id\_seq'::regclass)

job\_title | text | | |

min\_salary | integer | | | 8000

max\_salary | integer | | |

**Q.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.**

assignment\_1=# alter table countries add primary key(country\_id, region\_id);

ALTER TABLE

assignment\_1=# \d countries

Table "public.countries"

Column | Type | Collation | Nullable | Default

--------------+---------+-----------+----------+---------

country\_id | integer | | not null |

country\_name | text | | |

region\_id | integer | | not null |

Indexes:

"countries\_pkey" PRIMARY KEY, btree (country\_id, region\_id)

**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 is assigned to that column.**

assignment\_1=# create table countries (country\_id serial not null primary key, country\_name text not null default 'NA', region\_id integer not null);

CREATE TABLE

assignment\_1=# \d countries

Table "public.countries"

Column | Type | Collation | Nullable | Default

--------------+---------+-----------+----------+-----------------------------------------------

country\_id | integer | | not null | nextval('countries\_country\_id\_seq'::regclass)

country\_name | text | | not null | 'NA'::text

region\_id | integer | | not null |

Indexes:

"countries\_pkey" PRIMARY KEY, btree (country\_id)

assignment\_1=# insert into countries values(101,'India',55);

INSERT 0 1

assignment\_1=# select \* from countries

assignment\_1-# ;

country\_id | country\_name | region\_id

------------+--------------+-----------

101 | India | 55

assignment\_1=# insert into countries (region\_id) values(65);

INSERT 0 1

assignment\_1=# insert into countries (region\_id, country\_name) values(75,'Germany');

INSERT 0 1

assignment\_1=# select \* from countries

assignment\_1-# ;

country\_id | country\_name | region\_id

------------+--------------+-----------

101 | India | 55

1 | NA | 65

2 | Germany | 75