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.

cdac=# create table jobs (job\_id integer,job\_title text default ' ',min\_salary integer default 8000, max\_salary integer default null);

CREATE TABLE

cdac=# \d jobs

Table "public.jobs"

Column | Type | Collation | Nullable | Default

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

job\_id | integer | | |

job\_title | text | | | ' '::text

min\_salary | integer | | | 8000

max\_salary | integer | | |

cdac=# insert into jobs (job\_id,max\_salary) values (1,130000),(2,30000),(3,40000),(4,50000);

INSERT 0 4

cdac=# table jobs

cdac-# ;

job\_id | job\_title | min\_salary | max\_salary

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

1 | | 8000 | 130000

2 | | 8000 | 30000

3 | | 8000 | 40000

4 | | 8000 | 50000

(4 rows)

1. 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.

cdac=# create table countries (countryname text,countryid integer,regionid integer,primary key (countryid,regionid))

cdac-# ;

CREATE TABLE

cdac=# \d countries

Table "public.countries"

Column | Type | Collation | Nullable | Default

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

countryname | text | | |

countryid | integer | | not null |

regionid | integer | | not null |

Indexes:

"countries\_pkey" PRIMARY KEY, btree (countryid, regionid)

cdac=# insert into countries values ('india',1,001),('shrilanka',2,002);

INSERT 0 2

cdac=# table countries

cdac-# ;

countryname | countryid | regionid

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

india | 1 | 1

shrilank | 2 | 2

(2 rows)

cdac=# insert into countries values ('america',1,003),('africa',2,002);

ERROR: duplicate key value violates unique constraint "countries\_pkey"

DETAIL: Key (countryid, regionid)=(1, 3) already exists.

cdac=#

1. 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.

cdac=#

cdac=# create table countries2 (countryid serial,regionid integer,countryname text default ('N\A'));

CREATE TABLE

cdac=# \d countries2

Table "public.countries2"

Column | Type | Collation | Nullable | Default

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

countryid | integer | | not null | nextval('countries2\_countryid\_seq'::regclass)

regionid | integer | | |

countryname | text | | | 'N\A'::text

cdac=# insert into countries2

cdac-# (regionid,countryname) values (01,'india'),(02,'africa');

INSERT 0 2

cdac=# table countries2

cdac-# ;

countryid | regionid | countryname

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

1 | 1 | india

2 | 2 | africa

(2 rows)

cdac=# insert into countries2

cdac-# (regionid) values (03),(04),(05);

INSERT 0 3

cdac=# table countries2;

countryid | regionid | countryname

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

1 | 1 | india

2 | 2 | africa

3 | 3 | N\A

4 | 4 | N\A

5 | 5 | N\A

(5 rows)