**Q.1 Write a SQL statement to create a simple table countries including columns country\_id, country\_name and region\_id which already exist.**

postgres=# create database assignment\_1;

CREATE DATABASE

postgres=# \c assignment\_1

assignment\_1=# create table countires("country\_id" integer, "country\_name" varchar(20) , "regein\_id" text) ;

CREATE TABLE

assignment\_1=# \d countires;

Table "public.countires"

Column | Type | Collation | Nullable | Default

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

country\_id | integer | | |

country\_name | character varying(20) | | |

regein\_id | text | | |

assignment\_1=# insert into countires (country\_id,country\_name,regein\_id) values ('1','india','IN'),('2','israel','IL'),('3','brazil','BR');

INSERT 0 3

assignment\_1=# select \* from countires;

country\_id | country\_name | regein\_id

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

1 | india | IN

2 | israel | IL

3 | brazil | BR

**Q.2 Write a SQL statement to create a simple table countries including columns country\_id,country\_name and region\_id.**

assignment\_1=# \d countires ;

Table "public.countires"

Column | Type | Collation | Nullable | Default

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

country\_id | integer | | |

country\_name | character varying(20) | | |

regein\_id | text | | |

assignment\_1=# create table if not exists countires ("country\_id" integer, "country\_name" varchar(20) , "regein\_id" text);

NOTICE: relation "countires" already exists, skipping

CREATE TABLE

**Q.3 Write a SQL statement to create the structure of a table dup\_countries similar to countries.**

assignment\_1=# create table dup\_countries as table countries with no data;

CREATE TABLE AS

assignment\_1=# \d countries

Table "public.countries"

Column | Type | Collation | Nullable | Default

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

country\_id | integer | | |

country\_name | character varying(20) | | |

regein\_id | text | | |

assignment\_1=# \d dup\_countries

Table "public.dup\_countries"

Column | Type | Collation | Nullable | Default

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

country\_id | integer | | |

country\_name | character varying(20) | | |

regein\_id | text | | |

assignment\_1=# select \* from countries;

country\_id | country\_name | regein\_id

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

1 | india | IN

2 | israel | IL

3 | brazil | BR

(3 rows)

assignment\_1=# select \* from dup\_countries;

country\_id | country\_name | regein\_id

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

(0 rows)

**Q.4 Write a SQL statement to create a duplicate copy of countries table including structure and data by name dup\_countries**.

assignment\_1=# \d countries

Table "public.countries"

Column | Type | Collation | Nullable | Default

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

country\_id | integer | | |

country\_name | character varying(20) | | |

regein\_id | text | | |

assignment\_1=# create table if not exists dup2\_countries as table countries ;

SELECT 3

assignment\_1=# \d dup2\_countries

Table "public.dup2\_countries"

Column | Type | Collation | Nullable | Default

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

country\_id | integer | | |

country\_name | character varying(20) | | |

regein\_id | text | | |

assignment\_1=# select \* from dup2\_countries;

country\_id | country\_name | regein\_id

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

1 | india | IN

2 | israel | IL

3 | brazil | BR

(3 rows)

**Q.5 Write a SQL statement to create a table named countries, including 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.**

assignment\_1=# create table countries("country\_id" integer primary key, "country\_name" varchar(20), region\_id integer);

CREATE TABLE

assignment\_1=# insert into countries values(1,'india',1),(2,'pak',2);

INSERT 0 2

assignment\_1=# select \* from countries;

country\_id | country\_name | region\_id

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

1 | india | 1

2 | pak | 2

(2 rows)

assignment\_1=# insert into countries values(1,'brazil',3);

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

DETAIL: Key (country\_id)=(1) already exists.