

## HW2 - SQL on PostgreSQL

Q1:

Schema	Name	Type	Owner
public	Homework	table	postgres
public	rdata	table	postgres

(2 rows)

Table "public.rdata"				
Column	Type	Collation	Nullable	Default
id	integer		not null	nextval('rdata_id_seq'::regclass)
a	character varying(5)			
b	character varying(5)			
moment	date			
x	numeric(5,2)			

Indexes:  
"rdata\_pkey" PRIMARY KEY, btree (id)

Q2:

```
[Homework=# DROP TABLE IF EXISTS rdata;  
DROP TABLE
```

```
[Homework=# \dt
```

List of relations

Schema	Name	Type	Owner
public	Homework	table	postgres

(1 row)

```
[Homework=# \d rdata
```

Table "public.rdata"				
Column	Type	Collation	Nullable	Default
id	integer		not null	nextval('rdata_id_seq'::regclass)
a	character varying(5)		not null	
b	character varying(5)		not null	
moment	date			
x	numeric(5,2)			'2020-01-01'::date

Indexes:  
"rdata\_pkey" PRIMARY KEY, btree (id)  
"rdata\_a\_key" UNIQUE CONSTRAINT, btree (a)  
"rdata\_b\_key" UNIQUE CONSTRAINT, btree (b)

Check constraints:

"rdata\_x\_check" CHECK (x > 0::numeric)

Q3:

```
Homework=# INSERT INTO rdata (a, b, x) VALUES
[('Kiran','CMU',134.98),('Bhanu','MU',234.99),('Andrw','CU',421.98);
INSERT 0 3
Homework=# SELECT * FROM rdata;
```

id	a	b	moment	x
3	Kiran	CMU	2020-01-01	134.98
4	Bhanu	MU	2020-01-01	234.99
5	Andrw	CU	2020-01-01	421.98

(3 rows)

Q4:

```
Homework=# INSERT INTO rdata (a, b, x) VALUES ('Baby', 'ab', -12.34);
ERROR:  new row for relation "rdata" violates check constraint "rdata_x_check"
DETAIL:  Failing row contains (6, Baby, ab, 2020-01-01, -12.34).
Homework=# INSERT INTO rdata (a, b, x) VALUES ('Baby', 'ab', 12.34);
INSERT 0 1
Homework=# SELECT * FROM rdata;
```

id	a	b	moment	x
3	Kiran	CMU	2020-01-01	134.98
4	Bhanu	MU	2020-01-01	234.99
5	Andrw	CU	2020-01-01	421.98
7	Baby	ab	2020-01-01	12.34

(4 rows)

Q5:

```
Homework=# UPDATE rdata SET moment = '2020-03-15' WHERE a = 'Kiran' OR a = 'Bhanu';
UPDATE 2
Homework=# SELECT * FROM rdata;
```

id	a	b	moment	x
5	Andrw	CU	2020-01-01	421.98
7	Baby	ab	2020-01-01	12.34
3	Kiran	CMU	2020-03-15	134.98
4	Bhanu	MU	2020-03-15	234.99

(4 rows)

Q6:

```
DELETE 0
[Homework=# DELETE FROM rdata WHERE id = 3;
DELETE 1
[Homework=# SELECT * FROM rdata;
 id |  a  | b  |  moment  |  x
-----+-----+-----+-----+-----
  5 | Andrw | CU | 2020-01-01 | 421.98
  7 | Baby  | ab | 2020-01-01 | 12.34
  4 | Bhanu | MU | 2020-03-15 | 234.99
(3 rows)
```

Q7:

Google Cloud

My First Project

Search (/) for resources, docs, products, and more

Search

1

Dataproc

Jobs on Clusters

Clusters

Jobs

Clusters

CREATE CLUSTER REFRESH START STOP DELETE REGIONS + 5 RECOMMENDED ALERTS HIDE INFO PANEL

Filter Search clusters, press Enter

Name	Status	Region	Zone	Total worker nodes	Scheduled deletion	Cloud Storage
cluster-70a0	Running	us-central1	us-central1-f	0	Off	

cluster-70a0

PERMISSIONS LABELS

Edit or delete permissions below, or select 'Add Principal' to grant new

ADD PRINCIPAL