Câu 1

CREATE TABLE myemployees(employee_id SERIAL PRIMARY KEY, firstname VARCHAR(20) NOT NULL, lastname VARCHAR(20) NOT NULL, title VARCHAR(500) NOT NULL DEFAULT '', age INTEGER CHECK (age >= 0), salary DECIMAL(10, 2) CHECK (salary <= 1000000));

Câu2

INSERT INTO myemployees(employee_id, firstname, lastname, title, age, salary) VALUES(1, 'Jonie', 'Weber', 'Secretary', 28, 19500), (2, 'Potsy', 'Weber', 'Programmer', 32, 45300),(3, 'Dirk', 'Smith', 'Programmer II', 45, 75020),(4, 'Mike', 'Nicols', 'Programmer', 25, 35000),(5, 'Jim', 'Smith', 'Secretary', 24, 17000),(6, 'Dean', 'Yeager', 'Programmer II', 39, 73000),(7, 'Mark', 'Middleton', '', 21, 10000);

Câu 3

```
SELECT * FROM myemployees;
Câu 4
SELECT * FROM myemployees WHERE salary < 30000;
Câu 5
SELECT firstname, lastname FROM myemployees WHERE age > 30;
Câu 6
SELECT firstname, lastname, salary FROM myemployees WHERE title = 'Programmer';
Câu 7
SELECT * FROM myemployees WHERE lastname LIKE '%ebe%';
Câu 8
SELECT * FROM myemployees WHERE firstname = 'Potsy';
Câu 9
SELECT * FROM myemployees WHERE lastname LIKE '%ith';
Câu 10
UPDATE myemployees SET lastname = 'Williams' WHERE firstname = 'Jonie' AND lastname =
'Weber';
Câu 11
UPDATE myemplyees SET age = age +1 WHERE firstname = ‘Dirk’ AND lastname = ‘Smith’;
Câu 12
UPDATE myemployees SET title = 'Administrative Assistant' WHERE title = 'Secretary';
Câu 13
UPDATE myemployees SET salary = salary + 3500 WHERE salary < 30000;
Câu 14
UPDATE myemployees SET salary = salary + 4500 WHERE salary > 33500;
Câu 15
UPDATE myemployees SET title = 'Programmer III' WHERE title = 'Programmer II';
UPDATE myemployees SET title = 'Programmer II' WHERE title = 'Programmer';
Câu 16
DELETE FROM myemployees WHERE firstname = 'Jonie' AND lastname = 'Williams';
Câu 17
DELETE FROM myemployees WHERE salary > 70000;
Câu 18

CREATE DATABASE music WITH = postgres ENCODING = ‘UTF8’;

Câu 19

CREATE TABLE album(album_id INEGER PRIMARY KEY, title VARCHAR(100));

CREATE TABLE artist( artist_id SERIAL PRIMARY KEY, name VARCHAR(50));
```

```
CREATE TABLE track(id SERIALPRIMARY KEY, title VARCHAR(100), len NUMERIC(4,0), rating
NUMERIC(4,0),  count(4,0), artist_id INTEGER  REFERENCES artist(artist_id), album_id
INTEGER REFERENCES album(album_id));
```

Câu 20

- Bảng album:

```
C:\Users\HOANG PHU>docker cp D:\hi\album.csv 3f145ef7ada1:album.csv

Successfully copied 3.07kB to 3f145ef7ada1:album.csv


C:\Users\HOANG PHU>docker exec -it postgresCont bash

root@3f145ef7ada1:/# ls

album.csv  boot  docker-entrypoint-initdb.d  home  lib64  mnt  proc  run   srv  tmp  var

bin        dev   etc                         lib   media  opt  root  sbin  sys  usr

root@3f145ef7ada1:/# psql -h localhost -U postgres

psql (16.2 (Debian 16.2-1.pgdg120+2))

Type "help" for help.

postgres=# \c music;

You are now connected to database "music" as user "postgres".

music=# \copy album FROM album.csv DELIMITER','CSV HEADER;

COPY 41
```

- Bảng artist:

```
C:\Users\HOANG PHU>docker cp D:\hi\artist.csv 3f145ef7ada1:artist.csv

Successfully copied 2.56kB to 3f145ef7ada1:artist.csv


C:\Users\HOANG PHU>docker exec -it postgresCont bash

root@3f145ef7ada1:/# ls

album.csv   bin   dev                         etc   lib    media  opt   root  sbin  sys
usr

artist.csv  boot  docker-entrypoint-initdb.d  home  lib64  mnt    proc  run   srv   tmp
var

root@3f145ef7ada1:/# psql -h localhost -U postgres
```

```
psql (16.2 (Debian 16.2-1.pgdg120+2))

Type "help" for help.

postgres=# \c music;

You are now connected to database "music" as user "postgres".

music=# \copy artist FROM artist.csv DELIMITER',' CSV HEADER;

COPY 51
```

- Bảng track:

```
C:\Users\HOANG PHU>docker cp D:\hi\track.csv 3f145ef7ada1:track.csv

Successfully copied 12.8kB to 3f145ef7ada1:track.csv


C:\Users\HOANG PHU>docker exec -it postgresCont bash

root@3f145ef7ada1:/# ls

album.csv   bin   dev                         etc   lib    media  opt   root  sbin  sys
track.csv  var

artist.csv  boot  docker-entrypoint-initdb.d  home  lib64  mnt    proc  run   srv   tmp
usr

root@3f145ef7ada1:/# psql -h localhost -U postgres

psql (16.2 (Debian 16.2-1.pgdg120+2))

Type "help" for help.

postgres=# \c music;

You are now connected to database "music" as user "postgres".

music=#  \copy track (title, len, rating, count, album_id, artist_id) FROM 'track.csv'
DELIMITER ',' CSV HEADER;

COPY 296

music=#
```