dbda\_lab=# create TABLE customers ( customer\_Id int NOT NULL, First\_Name varchar(50) NOT NULL, Last\_Name varchar(50) NOT NULL, phone varchar(50) NOT NULL, creditLimit decimal(10,2) DEFAULT NULL, PRIMARY KEY (customer\_Id) );

CREATE TABLE

dbda\_lab=# insert into customers values (103,'Atelier','Schmitt','08-7896 6578',21000.00),(112,'Signal','King','7025551838',71800.00), (114,'Ferguson','Peter','03-9520 4555',117300.00),(119,'Labrune','Janine ','40.67.8555',118200.00), (121,'Bergulfsen','Jonas ','07-98 9555',81700.00),(124,'Nelson','Susan','4155551450',210500.00), (125,'Piestrzeniewicz','Zbyszek ','(26) 642-7555',0.00),(128,'Keitel','Roland','+49 69 66 90 2555',59700.00), (129,'Murphy','Julie','6505555787',64600.00),(131,'Lee','Kwai','2125557818',114900.00), (141,'Freyre','Diego ','(91) 555 94 44',227600.00),(144,'Berglund','Christina ','0921-12 3555',53100.00), (145,'Petersen','Jytte ','31 12 3555',83400.00),(146,'Saveley','Mary ','78.32.5555',123900.00), (148,'Eric','Jecob','+65 221 7555',103800.00),(151,'Young','Jeff','2125557413',138500.00);

INSERT 0 16

dbda\_lab=# DROP TABLE IF EXISTS orders;

NOTICE: table "orders" does not exist, skipping

DROP TABLE

dbda\_lab=# CREATE TABLE orders( order\_Id int NOT NULL, order\_Date date NOT NULL, shipped\_Date date DEFAULT NULL, Deliver varchar(15) NOT NULL, customer\_Id int NOT NULL, PRIMARY KEY (order\_Id), FOREIGN KEY (customer\_Id) REFERENCES customers(customer\_Id) );

CREATE TABLE

dbda\_lab=# insert into orders values (10100,'2003-01-06','2003-01-13','Shipped',114),(10101,'2003-01-09','2003-01-18','Shipped',125), (10102,'2003-01-10','2003-01-18','Shipped',129),(10103,'2003-01-29','2003-02-07','Shipped',121), (10104,'2003-01-31','2003-02-09','Shipped',141),(10105,'2003-02-11','2003-02-21','Shipped',145);

INSERT 0 6

dbda\_lab=# \d

List of relations

Schema | Name | Type | Owner

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

public | agents | table | postgres

public | company6 | table | postgres

public | country | table | postgres

public | country\_new | table | postgres

public | ctr | table | postgres

public | customers | table | postgres

public | department1 | table | postgres

public | dup\_count | table | postgres

public | dup\_countries | table | postgres

public | employees | table | postgres

public | job | table | anushka

public | locations | table | postgres

public | orders | table | postgres

public | quantity | table | postgres

public | quantity\_no\_seq | sequence | postgres

public | quantity\_serial\_seq | sequence | postgres

public | uni | table | postgres

(17 rows)

dbda\_lab=# \d orders

Table "public.orders"

Column | Type | Collation | Nullable | Default

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

order\_id | integer | | not null |

order\_date | date | | not null |

shipped\_date | date | | |

deliver | character varying(15) | | not null |

customer\_id | integer | | not null |

Indexes:

"orders\_pkey" PRIMARY KEY, btree (order\_id)

Foreign-key constraints:

"orders\_customer\_id\_fkey" FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

dbda\_lab=# orders table

dbda\_lab-# ;

ERROR: syntax error at or near "orders"

LINE 1: orders table

^

dbda\_lab=# tables orders;

ERROR: syntax error at or near "tables"

LINE 1: tables orders;

^

dbda\_lab=# table orders;

order\_id | order\_date | shipped\_date | deliver | customer\_id

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114

10101 | 2003-01-09 | 2003-01-18 | Shipped | 125

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145

(6 rows)

dbda\_lab=# table customers;

customer\_id | first\_name | last\_name | phone | creditlimit

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

103 | Atelier | Schmitt | 08-7896 6578 | 21000.00

112 | Signal | King | 7025551838 | 71800.00

114 | Ferguson | Peter | 03-9520 4555 | 117300.00

119 | Labrune | Janine | 40.67.8555 | 118200.00

121 | Bergulfsen | Jonas | 07-98 9555 | 81700.00

124 | Nelson | Susan | 4155551450 | 210500.00

125 | Piestrzeniewicz | Zbyszek | (26) 642-7555 | 0.00

128 | Keitel | Roland | +49 69 66 90 2555 | 59700.00

129 | Murphy | Julie | 6505555787 | 64600.00

131 | Lee | Kwai | 2125557818 | 114900.00

141 | Freyre | Diego | (91) 555 94 44 | 227600.00

144 | Berglund | Christina | 0921-12 3555 | 53100.00

145 | Petersen | Jytte | 31 12 3555 | 83400.00

146 | Saveley | Mary | 78.32.5555 | 123900.00

148 | Eric | Jecob | +65 221 7555 | 103800.00

151 | Young | Jeff | 2125557413 | 138500.00

(16 rows)

dbda\_lab=# alter table orders add column package\_stat text;

ALTER TABLE

dbda\_lab=# update table orders set package\_stat ='not available'

dbda\_lab-# ;

ERROR: syntax error at or near "table"

LINE 1: update table orders set package\_stat ='not available'

^

dbda\_lab=# update orders set package\_stat ='not available';

UPDATE 6

dbda\_lab=# delete table orders where creditlimit =0.00

dbda\_lab-# ;

ERROR: syntax error at or near "table"

LINE 1: delete table orders where creditlimit =0.00

^

dbda\_lab=# delete orders where creditlimit =0.00;

ERROR: syntax error at or near "orders"

LINE 1: delete orders where creditlimit =0.00;

^

dbda\_lab=# delete from orders where creditlimit =0.00;

ERROR: column "creditlimit" does not exist

LINE 1: delete from orders where creditlimit =0.00;

^

dbda\_lab=# delete from table orders where creditlimit =0.00;

ERROR: syntax error at or near "table"

LINE 1: delete from table orders where creditlimit =0.00;

^

dbda\_lab=# delete from table customers where creditlimit =0.00;

ERROR: syntax error at or near "table"

LINE 1: delete from table customers where creditlimit =0.00;

^

dbda\_lab=# delete from customers where creditlimit =0.00;

ERROR: update or delete on table "customers" violates foreign key constraint "orders\_customer\_id\_fkey" on table "orders"

DETAIL: Key (customer\_id)=(125) is still referenced from table "orders".

dbda\_lab=# alter table orders drop constraint customers\_pkey;

ERROR: constraint "customers\_pkey" of relation "orders" does not exist

dbda\_lab=# alter table orders drop constraint customers\_fkey;

ERROR: constraint "customers\_fkey" of relation "orders" does not exist

dbda\_lab=# alter table orders drop constraint customer\_id\_fkey;

ERROR: constraint "customer\_id\_fkey" of relation "orders" does not exist

dbda\_lab=# alter table orders drop constraint customer\_id\_pkey;

ERROR: constraint "customer\_id\_pkey" of relation "orders" does not exist

dbda\_lab=# alter table orders drop constraint orders\_pkey;

ALTER TABLE

dbda\_lab=# delete from customers where creditlimit =0.00;

ERROR: update or delete on table "customers" violates foreign key constraint "orders\_customer\_id\_fkey" on table "orders"

DETAIL: Key (customer\_id)=(125) is still referenced from table "orders".

dbda\_lab=# \d orders;

Table "public.orders"

Column | Type | Collation | Nullable | Default

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

order\_id | integer | | not null |

order\_date | date | | not null |

shipped\_date | date | | |

deliver | character varying(15) | | not null |

customer\_id | integer | | not null |

package\_stat | text | | |

Foreign-key constraints:

"orders\_customer\_id\_fkey" FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

dbda\_lab=# delete from customers where creditlimit =0.00 cascade;

ERROR: syntax error at or near "cascade"

LINE 1: delete from customers where creditlimit =0.00 cascade;

^

dbda\_lab=# cascade delete from customers where creditlimit =0.00 ;

ERROR: syntax error at or near "cascade"

LINE 1: cascade delete from customers where creditlimit =0.00 ;

^

dbda\_lab=# alter table orders drop constraint customers\_pkey cascade;

ERROR: constraint "customers\_pkey" of relation "orders" does not exist

dbda\_lab=# alter table customers drop constraint customers\_pkey cascade;

NOTICE: drop cascades to constraint orders\_customer\_id\_fkey on table orders

ALTER TABLE

dbda\_lab=# delete from customers where creditlimit =0.00 ;

DELETE 1

dbda\_lab=# \d orders

Table "public.orders"

Column | Type | Collation | Nullable | Default

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

order\_id | integer | | not null |

order\_date | date | | not null |

shipped\_date | date | | |

deliver | character varying(15) | | not null |

customer\_id | integer | | not null |

package\_stat | text | | |

dbda\_lab=# table customers;

customer\_id | first\_name | last\_name | phone | creditlimit

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

103 | Atelier | Schmitt | 08-7896 6578 | 21000.00

112 | Signal | King | 7025551838 | 71800.00

114 | Ferguson | Peter | 03-9520 4555 | 117300.00

119 | Labrune | Janine | 40.67.8555 | 118200.00

121 | Bergulfsen | Jonas | 07-98 9555 | 81700.00

124 | Nelson | Susan | 4155551450 | 210500.00

128 | Keitel | Roland | +49 69 66 90 2555 | 59700.00

129 | Murphy | Julie | 6505555787 | 64600.00

131 | Lee | Kwai | 2125557818 | 114900.00

141 | Freyre | Diego | (91) 555 94 44 | 227600.00

144 | Berglund | Christina | 0921-12 3555 | 53100.00

145 | Petersen | Jytte | 31 12 3555 | 83400.00

146 | Saveley | Mary | 78.32.5555 | 123900.00

148 | Eric | Jecob | +65 221 7555 | 103800.00

151 | Young | Jeff | 2125557413 | 138500.00

(15 rows)

dbda\_lab=# select first\_name from customers where first\_name ilike '%el%';

first\_name

------------

Atelier

Nelson

Keitel

Saveley

(4 rows)

dbda\_lab=# alter table customers add primary key(customer\_id);

ALTER TABLE

dbda\_lab=# alter table orders add constraint foreign key (customer\_id) references orders(customer\_id);

ERROR: syntax error at or near "foreign"

LINE 1: alter table orders add constraint foreign key (customer\_id) ...

^

dbda\_lab=# alter table orders add constraint foreign key (customer\_id) references orders(customer\_id);

ERROR: syntax error at or near "foreign"

LINE 1: alter table orders add constraint foreign key (customer\_id) ...

^

dbda\_lab=# table customers;

customer\_id | first\_name | last\_name | phone | creditlimit

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

103 | Atelier | Schmitt | 08-7896 6578 | 21000.00

112 | Signal | King | 7025551838 | 71800.00

114 | Ferguson | Peter | 03-9520 4555 | 117300.00

119 | Labrune | Janine | 40.67.8555 | 118200.00

121 | Bergulfsen | Jonas | 07-98 9555 | 81700.00

124 | Nelson | Susan | 4155551450 | 210500.00

128 | Keitel | Roland | +49 69 66 90 2555 | 59700.00

129 | Murphy | Julie | 6505555787 | 64600.00

131 | Lee | Kwai | 2125557818 | 114900.00

141 | Freyre | Diego | (91) 555 94 44 | 227600.00

144 | Berglund | Christina | 0921-12 3555 | 53100.00

145 | Petersen | Jytte | 31 12 3555 | 83400.00

146 | Saveley | Mary | 78.32.5555 | 123900.00

148 | Eric | Jecob | +65 221 7555 | 103800.00

151 | Young | Jeff | 2125557413 | 138500.00

(15 rows)

dbda\_lab=# table orders;

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

10101 | 2003-01-09 | 2003-01-18 | Shipped | 125 | not available

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129 | not available

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121 | not available

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141 | not available

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145 | not available

(6 rows)

dbda\_lab=# delete from orders where customer\_id=125;

DELETE 1

dbda\_lab=# alter table orders add foreign key (customer\_id) references customers(customer\_id);

ALTER TABLE

dbda\_lab=# select customers.customer\_id, first\_name,last\_name from customers, orders where customers.customer\_id=orders.customer\_id and deliver='Shipped';

customer\_id | first\_name | last\_name

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

114 | Ferguson | Peter

129 | Murphy | Julie

121 | Bergulfsen | Jonas

141 | Freyre | Diego

145 | Petersen | Jytte

(5 rows)

dbda\_lab=# select phone from customers where creditlimit > 50000;

phone

-------------------

7025551838

03-9520 4555

40.67.8555

07-98 9555

4155551450

+49 69 66 90 2555

6505555787

2125557818

(91) 555 94 44

0921-12 3555

31 12 3555

78.32.5555

+65 221 7555

2125557413

(14 rows)

dbda\_lab=# select count(\*) from customers where creditlimit > 50000;

count

-------

14

(1 row)

dbda\_lab=# select customer.customer\_id,first\_name,last\_name,orders\_id from customers,orders;

ERROR: missing FROM-clause entry for table "customer"

LINE 1: select customer.customer\_id,first\_name,last\_name,orders\_id f...

^

dbda\_lab=# select customers.customer\_id,first\_name,last\_name,orders\_id from customers,orders;

ERROR: column "orders\_id" does not exist

LINE 1: select customers.customer\_id,first\_name,last\_name,orders\_id ...

^

HINT: Perhaps you meant to reference the column "orders.order\_id".

dbda\_lab=# select customers.customer\_id,first\_name,last\_name,orders\_id from customers,orders;

ERROR: column "orders\_id" does not exist

LINE 1: select customers.customer\_id,first\_name,last\_name,orders\_id ...

^

HINT: Perhaps you meant to reference the column "orders.order\_id".

dbda\_lab=# select customers.customer\_id,first\_name,last\_name,orders\_id from customers,orders where customers.customer\_id=orders.customers\_id;;

ERROR: column "orders\_id" does not exist

LINE 1: select customers.customer\_id,first\_name,last\_name,orders\_id ...

^

HINT: Perhaps you meant to reference the column "orders.order\_id".

dbda\_lab=# select customers.customer\_id,first\_name,last\_name,orders\_id from customers,orders where customers.customer\_id=orders.customer\_id;;

ERROR: column "orders\_id" does not exist

LINE 1: select customers.customer\_id,first\_name,last\_name,orders\_id ...

^

HINT: Perhaps you meant to reference the column "orders.order\_id".

dbda\_lab=# select customers.customer\_id,first\_name,last\_name,order\_id from customers,orders where customers.customer\_id=orders.customer\_id;;

customer\_id | first\_name | last\_name | order\_id

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

114 | Ferguson | Peter | 10100

129 | Murphy | Julie | 10102

121 | Bergulfsen | Jonas | 10103

141 | Freyre | Diego | 10104

145 | Petersen | Jytte | 10105

(5 rows)

dbda\_lab=# select customers.customer\_id,concat(first\_name,last\_name)as name,order\_id from customers,orders where customers.customer\_id=orders.customer\_id;;

customer\_id | name | order\_id

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

114 | FergusonPeter | 10100

129 | MurphyJulie | 10102

121 | BergulfsenJonas | 10103

141 | FreyreDiego | 10104

145 | PetersenJytte | 10105

(5 rows)

dbda\_lab=# select customers.customer\_id,concat(first\_name,last\_name)as name,order\_id,deliver from customers,orders ;

customer\_id | name | order\_id | deliver

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

103 | AtelierSchmitt | 10100 | Shipped

112 | SignalKing | 10100 | Shipped

114 | FergusonPeter | 10100 | Shipped

119 | LabruneJanine | 10100 | Shipped

121 | BergulfsenJonas | 10100 | Shipped

124 | NelsonSusan | 10100 | Shipped

128 | KeitelRoland | 10100 | Shipped

129 | MurphyJulie | 10100 | Shipped

131 | LeeKwai | 10100 | Shipped

141 | FreyreDiego | 10100 | Shipped

144 | BerglundChristina | 10100 | Shipped

145 | PetersenJytte | 10100 | Shipped

146 | SaveleyMary | 10100 | Shipped

148 | EricJecob | 10100 | Shipped

151 | YoungJeff | 10100 | Shipped

103 | AtelierSchmitt | 10102 | Shipped

112 | SignalKing | 10102 | Shipped

114 | FergusonPeter | 10102 | Shipped

119 | LabruneJanine | 10102 | Shipped

121 | BergulfsenJonas | 10102 | Shipped

124 | NelsonSusan | 10102 | Shipped

128 | KeitelRoland | 10102 | Shipped

129 | MurphyJulie | 10102 | Shipped

131 | LeeKwai | 10102 | Shipped

141 | FreyreDiego | 10102 | Shipped

144 | BerglundChristina | 10102 | Shipped

145 | PetersenJytte | 10102 | Shipped

146 | SaveleyMary | 10102 | Shipped

148 | EricJecob | 10102 | Shipped

151 | YoungJeff | 10102 | Shipped

103 | AtelierSchmitt | 10103 | Shipped

112 | SignalKing | 10103 | Shipped

114 | FergusonPeter | 10103 | Shipped

119 | LabruneJanine | 10103 | Shipped

121 | BergulfsenJonas | 10103 | Shipped

124 | NelsonSusan | 10103 | Shipped

128 | KeitelRoland | 10103 | Shipped

129 | MurphyJulie | 10103 | Shipped

131 | LeeKwai | 10103 | Shipped

141 | FreyreDiego | 10103 | Shipped

144 | BerglundChristina | 10103 | Shipped

145 | PetersenJytte | 10103 | Shipped

146 | SaveleyMary | 10103 | Shipped

148 | EricJecob | 10103 | Shipped

151 | YoungJeff | 10103 | Shipped

103 | AtelierSchmitt | 10104 | Shipped

112 | SignalKing | 10104 | Shipped

114 | FergusonPeter | 10104 | Shipped

119 | LabruneJanine | 10104 | Shipped

121 | BergulfsenJonas | 10104 | Shipped

124 | NelsonSusan | 10104 | Shipped

128 | KeitelRoland | 10104 | Shipped

129 | MurphyJulie | 10104 | Shipped

131 | LeeKwai | 10104 | Shipped

141 | FreyreDiego | 10104 | Shipped

144 | BerglundChristina | 10104 | Shipped

145 | PetersenJytte | 10104 | Shipped

146 | SaveleyMary | 10104 | Shipped

148 | EricJecob | 10104 | Shipped

151 | YoungJeff | 10104 | Shipped

103 | AtelierSchmitt | 10105 | Shipped

112 | SignalKing | 10105 | Shipped

114 | FergusonPeter | 10105 | Shipped

119 | LabruneJanine | 10105 | Shipped

121 | BergulfsenJonas | 10105 | Shipped

124 | NelsonSusan | 10105 | Shipped

128 | KeitelRoland | 10105 | Shipped

129 | MurphyJulie | 10105 | Shipped

131 | LeeKwai | 10105 | Shipped

141 | FreyreDiego | 10105 | Shipped

144 | BerglundChristina | 10105 | Shipped

145 | PetersenJytte | 10105 | Shipped

146 | SaveleyMary | 10105 | Shipped

148 | EricJecob | 10105 | Shipped

151 | YoungJeff | 10105 | Shipped

(75 rows)

dbda\_lab=# table orders;

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129 | not available

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121 | not available

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141 | not available

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145 | not available

(5 rows)

dbda\_lab=# table customers;

customer\_id | first\_name | last\_name | phone | creditlimit

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

103 | Atelier | Schmitt | 08-7896 6578 | 21000.00

112 | Signal | King | 7025551838 | 71800.00

114 | Ferguson | Peter | 03-9520 4555 | 117300.00

119 | Labrune | Janine | 40.67.8555 | 118200.00

121 | Bergulfsen | Jonas | 07-98 9555 | 81700.00

124 | Nelson | Susan | 4155551450 | 210500.00

128 | Keitel | Roland | +49 69 66 90 2555 | 59700.00

129 | Murphy | Julie | 6505555787 | 64600.00

131 | Lee | Kwai | 2125557818 | 114900.00

141 | Freyre | Diego | (91) 555 94 44 | 227600.00

144 | Berglund | Christina | 0921-12 3555 | 53100.00

145 | Petersen | Jytte | 31 12 3555 | 83400.00

146 | Saveley | Mary | 78.32.5555 | 123900.00

148 | Eric | Jecob | +65 221 7555 | 103800.00

151 | Young | Jeff | 2125557413 | 138500.00

(15 rows)

dbda\_lab=# select c.customer\_id,concat(c.first\_name,'',c.last\_name) name ,o.order\_id,o.deliver from customers c full outer join orders o on c.customer\_id=o.customer\_id;

customer\_id | name | order\_id | deliver

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

114 | FergusonPeter | 10100 | Shipped

129 | MurphyJulie | 10102 | Shipped

121 | BergulfsenJonas | 10103 | Shipped

141 | FreyreDiego | 10104 | Shipped

145 | PetersenJytte | 10105 | Shipped

151 | YoungJeff | |

119 | LabruneJanine | |

131 | LeeKwai | |

146 | SaveleyMary | |

112 | SignalKing | |

128 | KeitelRoland | |

103 | AtelierSchmitt | |

148 | EricJecob | |

124 | NelsonSusan | |

144 | BerglundChristina | |

(15 rows)

dbda\_lab=# select c.customer\_id,concat(c.first\_name,'',c.last\_name) name ,o.order\_id,o.deliver from customers c full right join orders o on c.customer\_id=o.customer\_id;

ERROR: syntax error at or near "right"

LINE 1: ... name ,o.order\_id,o.deliver from customers c full right join...

^

dbda\_lab=# select c.customer\_id,concat(c.first\_name,'',c.last\_name) name ,o.order\_id,o.deliver from customers c right join orders o on c.customer\_id=o.customer\_id;

customer\_id | name | order\_id | deliver

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

114 | FergusonPeter | 10100 | Shipped

129 | MurphyJulie | 10102 | Shipped

121 | BergulfsenJonas | 10103 | Shipped

141 | FreyreDiego | 10104 | Shipped

145 | PetersenJytte | 10105 | Shipped

(5 rows)

dbda\_lab=# select customers.customer\_id,concat(customers.first\_name,customers.last\_name) as name,orders.order\_id,orders.deliver from customers ,orders;

customer\_id | name | order\_id | deliver

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

103 | AtelierSchmitt | 10100 | Shipped

112 | SignalKing | 10100 | Shipped

114 | FergusonPeter | 10100 | Shipped

119 | LabruneJanine | 10100 | Shipped

121 | BergulfsenJonas | 10100 | Shipped

124 | NelsonSusan | 10100 | Shipped

128 | KeitelRoland | 10100 | Shipped

129 | MurphyJulie | 10100 | Shipped

131 | LeeKwai | 10100 | Shipped

141 | FreyreDiego | 10100 | Shipped

144 | BerglundChristina | 10100 | Shipped

145 | PetersenJytte | 10100 | Shipped

146 | SaveleyMary | 10100 | Shipped

148 | EricJecob | 10100 | Shipped

151 | YoungJeff | 10100 | Shipped

103 | AtelierSchmitt | 10102 | Shipped

112 | SignalKing | 10102 | Shipped

114 | FergusonPeter | 10102 | Shipped

119 | LabruneJanine | 10102 | Shipped

121 | BergulfsenJonas | 10102 | Shipped

124 | NelsonSusan | 10102 | Shipped

128 | KeitelRoland | 10102 | Shipped

129 | MurphyJulie | 10102 | Shipped

131 | LeeKwai | 10102 | Shipped

141 | FreyreDiego | 10102 | Shipped

144 | BerglundChristina | 10102 | Shipped

145 | PetersenJytte | 10102 | Shipped

146 | SaveleyMary | 10102 | Shipped

148 | EricJecob | 10102 | Shipped

151 | YoungJeff | 10102 | Shipped

103 | AtelierSchmitt | 10103 | Shipped

112 | SignalKing | 10103 | Shipped

114 | FergusonPeter | 10103 | Shipped

119 | LabruneJanine | 10103 | Shipped

121 | BergulfsenJonas | 10103 | Shipped

124 | NelsonSusan | 10103 | Shipped

128 | KeitelRoland | 10103 | Shipped

129 | MurphyJulie | 10103 | Shipped

131 | LeeKwai | 10103 | Shipped

141 | FreyreDiego | 10103 | Shipped

144 | BerglundChristina | 10103 | Shipped

145 | PetersenJytte | 10103 | Shipped

146 | SaveleyMary | 10103 | Shipped

148 | EricJecob | 10103 | Shipped

151 | YoungJeff | 10103 | Shipped

103 | AtelierSchmitt | 10104 | Shipped

112 | SignalKing | 10104 | Shipped

114 | FergusonPeter | 10104 | Shipped

119 | LabruneJanine | 10104 | Shipped

121 | BergulfsenJonas | 10104 | Shipped

124 | NelsonSusan | 10104 | Shipped

128 | KeitelRoland | 10104 | Shipped

129 | MurphyJulie | 10104 | Shipped

131 | LeeKwai | 10104 | Shipped

141 | FreyreDiego | 10104 | Shipped

144 | BerglundChristina | 10104 | Shipped

145 | PetersenJytte | 10104 | Shipped

146 | SaveleyMary | 10104 | Shipped

148 | EricJecob | 10104 | Shipped

151 | YoungJeff | 10104 | Shipped

103 | AtelierSchmitt | 10105 | Shipped

112 | SignalKing | 10105 | Shipped

114 | FergusonPeter | 10105 | Shipped

119 | LabruneJanine | 10105 | Shipped

121 | BergulfsenJonas | 10105 | Shipped

124 | NelsonSusan | 10105 | Shipped

128 | KeitelRoland | 10105 | Shipped

129 | MurphyJulie | 10105 | Shipped

131 | LeeKwai | 10105 | Shipped

141 | FreyreDiego | 10105 | Shipped

144 | BerglundChristina | 10105 | Shipped

145 | PetersenJytte | 10105 | Shipped

146 | SaveleyMary | 10105 | Shipped

148 | EricJecob | 10105 | Shipped

151 | YoungJeff | 10105 | Shipped

(75 rows)

dbda\_lab=# select customer\_id from customer order by creditlimit;

ERROR: relation "customer" does not exist

LINE 1: select customer\_id from customer order by creditlimit;

^

dbda\_lab=# select customer\_id from customers order by creditlimit;

customer\_id

-------------

103

144

128

129

112

121

145

148

131

114

119

146

151

124

141

(15 rows)

dbda\_lab=# table customers;

customer\_id | first\_name | last\_name | phone | creditlimit

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

103 | Atelier | Schmitt | 08-7896 6578 | 21000.00

112 | Signal | King | 7025551838 | 71800.00

114 | Ferguson | Peter | 03-9520 4555 | 117300.00

119 | Labrune | Janine | 40.67.8555 | 118200.00

121 | Bergulfsen | Jonas | 07-98 9555 | 81700.00

124 | Nelson | Susan | 4155551450 | 210500.00

128 | Keitel | Roland | +49 69 66 90 2555 | 59700.00

129 | Murphy | Julie | 6505555787 | 64600.00

131 | Lee | Kwai | 2125557818 | 114900.00

141 | Freyre | Diego | (91) 555 94 44 | 227600.00

144 | Berglund | Christina | 0921-12 3555 | 53100.00

145 | Petersen | Jytte | 31 12 3555 | 83400.00

146 | Saveley | Mary | 78.32.5555 | 123900.00

148 | Eric | Jecob | +65 221 7555 | 103800.00

151 | Young | Jeff | 2125557413 | 138500.00

(15 rows)

dbda\_lab=# table orders;

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129 | not available

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121 | not available

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141 | not available

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145 | not available

(5 rows)

dbda\_lab=# create or replace procedure ordered\_day(x int) as $$ begin select customer\_id , order\_date from orders where order\_id=x; end; $$ language plpgsql ;

CREATE PROCEDURE

dbda\_lab=# call ordered\_day(10100);

ERROR: query has no destination for result data

HINT: If you want to discard the results of a SELECT, use PERFORM instead.

CONTEXT: PL/pgSQL function ordered\_day(integer) line 1 at SQL statement

dbda\_lab=# \d orders

Table "public.orders"

Column | Type | Collation | Nullable | Default

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

order\_id | integer | | not null |

order\_date | date | | not null |

shipped\_date | date | | |

deliver | character varying(15) | | not null |

customer\_id | integer | | not null |

package\_stat | text | | |

Foreign-key constraints:

"orders\_customer\_id\_fkey" FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

dbda\_lab=# create or replace procedure ordered\_day(x int) as $$ begin select customer\_id , order\_date from orders where order\_id=x;commit; end; $$ language plpgsql ;

CREATE PROCEDURE

dbda\_lab=# call ordered\_day(10100);

ERROR: query has no destination for result data

HINT: If you want to discard the results of a SELECT, use PERFORM instead.

CONTEXT: PL/pgSQL function ordered\_day(integer) line 1 at SQL statement

dbda\_lab=# create or replace procedure ordered\_day(x int) as $$ begin perform select customer\_id , order\_date from orders where order\_id=x; end; $$ language plpgsql ;

ERROR: syntax error at or near "select"

LINE 1: ... procedure ordered\_day(x int) as $$ begin perform select cus...

^

dbda\_lab=# create or replace procedure ordered\_day(x int) as $$ begin perform customer\_id , order\_date from orders where order\_id=x; end; $$ language plpgsql ;

CREATE PROCEDURE

dbda\_lab=# call ordered\_day(10100);

CALL

dbda\_lab=# create or replace function ordered\_day(x int) as $$ begin select customer\_id , order\_date from orders where order\_id=x;commit; end; $$ language plpgsql ;

ERROR: function result type must be specified

dbda\_lab=# create or replace procedure ordered\_day(x int) as v number begin select customer\_id , order\_date into v from orders where order\_id=x; end if; end;language plpgsql ;

ERROR: syntax error at or near "v"

LINE 1: create or replace procedure ordered\_day(x int) as v number b...

^

WARNING: there is no transaction in progress

COMMIT

ERROR: syntax error at or near "language"

LINE 1: language plpgsql ;

^

dbda\_lab=# create or replace procedure ordered\_day(x int) as v number begin select customer\_id , order\_date into v from orders where order\_id=x; end if; end ;

ERROR: syntax error at or near "v"

LINE 1: create or replace procedure ordered\_day(x int) as v number b...

^

WARNING: there is no transaction in progress

COMMIT

dbda\_lab=# call ordered\_day(10100);

CALL

dbda\_lab=# select ordered\_day(10100);

ERROR: ordered\_day(integer) is a procedure

LINE 1: select ordered\_day(10100);

^

HINT: To call a procedure, use CALL.

dbda\_lab=# select \* from ordered\_day(10100);

ERROR: ordered\_day(integer) is a procedure

LINE 1: select \* from ordered\_day(10100);

^

HINT: To call a procedure, use CALL.

dbda\_lab=# call \* from ordered\_day(10100);

ERROR: syntax error at or near "\*"

LINE 1: call \* from ordered\_day(10100);

^

dbda\_lab=# call ordered\_day(10100);

CALL

dbda\_lab=# create or replace function ordered\_day(x int) as $$ begin select customer\_id , order\_date from orders where order\_id=x;commit; end; $$ language plpgsql ;

ERROR: function result type must be specified

dbda\_lab=# create or replace procedure ordered\_day(x int) as $$ begin select customer\_id , order\_date from orders where order\_id=x; end; $$ language plpgsql ;

CREATE PROCEDURE

dbda\_lab=# select customer\_id , order\_date from orders where order\_id=10100 ;

customer\_id | order\_date

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

114 | 2003-01-06

(1 row)

dbda\_lab=# call ordered\_day(10100);

ERROR: query has no destination for result data

HINT: If you want to discard the results of a SELECT, use PERFORM instead.

CONTEXT: PL/pgSQL function ordered\_day(integer) line 1 at SQL statement

dbda\_lab=# create or replace procedure ordered\_day(x int) as $$ begin return( select customer\_id , order\_date from orders where order\_id=x); end; $$ language plpgsql ;

ERROR: RETURN cannot have a parameter in a procedure

LINE 1: ...ce procedure ordered\_day(x int) as $$ begin return( select c...

^

dbda\_lab=# create or replace procedure ordered\_day(x int)returns text as $$ begin return( select customer\_id , order\_date from orders where order\_id=x); end; $$ language plpgsql ;

ERROR: syntax error at or near "text"

LINE 1: ...te or replace procedure ordered\_day(x int)returns text as $$...

^

dbda\_lab=# cls

dbda\_lab-# ;

ERROR: syntax error at or near "cls"

LINE 1: cls

^

dbda\_lab=# cls

dbda\_lab-# ;

ERROR: syntax error at or near "cls"

LINE 1: cls

^

dbda\_lab=# CREATE OR REPLACE FUNCTION fx()

dbda\_lab-# RETURNS SETOF mytab AS $$

dbda\_lab$# BEGIN

dbda\_lab$# RETURN QUERY SELECT \* FROM mytab;

dbda\_lab$# END

dbda\_lab$# $$ LANGUAGE plpgsql;

ERROR: type "mytab" does not exist

dbda\_lab=# CREATE OR REPLACE FUNCTION fx() RETURNS SETOF orders AS $$ BEGIN RETURN QUERY SELECT \* FROM orders; END ;$$ LANGUAGE plpgsql;

CREATE FUNCTION

dbda\_lab=# select \* from fx(10100);

ERROR: function fx(integer) does not exist

LINE 1: select \* from fx(10100);

^

HINT: No function matches the given name and argument types. You might need to add explicit type casts.

dbda\_lab=# select \* from fx();

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129 | not available

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121 | not available

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141 | not available

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145 | not available

(5 rows)

dbda\_lab=# CREATE OR REPLACE FUNCTION fx(x int) RETURNS SETOF orders AS $$ BEGIN RETURN QUERY SELECT \* FROM orders where order\_id=x ; END ;$$ LANGUAGE plpgsql;

CREATE FUNCTION

dbda\_lab=# select \* from fx();

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129 | not available

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121 | not available

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141 | not available

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145 | not available

(5 rows)

dbda\_lab=# select \* from fx(10100);

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

(1 row)

dbda\_lab=# table customers;

customer\_id | first\_name | last\_name | phone | creditlimit

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

103 | Atelier | Schmitt | 08-7896 6578 | 21000.00

112 | Signal | King | 7025551838 | 71800.00

114 | Ferguson | Peter | 03-9520 4555 | 117300.00

119 | Labrune | Janine | 40.67.8555 | 118200.00

121 | Bergulfsen | Jonas | 07-98 9555 | 81700.00

124 | Nelson | Susan | 4155551450 | 210500.00

128 | Keitel | Roland | +49 69 66 90 2555 | 59700.00

129 | Murphy | Julie | 6505555787 | 64600.00

131 | Lee | Kwai | 2125557818 | 114900.00

141 | Freyre | Diego | (91) 555 94 44 | 227600.00

144 | Berglund | Christina | 0921-12 3555 | 53100.00

145 | Petersen | Jytte | 31 12 3555 | 83400.00

146 | Saveley | Mary | 78.32.5555 | 123900.00

148 | Eric | Jecob | +65 221 7555 | 103800.00

151 | Young | Jeff | 2125557413 | 138500.00

(15 rows)

dbda\_lab=# table orders;

order\_id | order\_date | shipped\_date | deliver | customer\_id | package\_stat

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

10100 | 2003-01-06 | 2003-01-13 | Shipped | 114 | not available

10102 | 2003-01-10 | 2003-01-18 | Shipped | 129 | not available

10103 | 2003-01-29 | 2003-02-07 | Shipped | 121 | not available

10104 | 2003-01-31 | 2003-02-09 | Shipped | 141 | not available

10105 | 2003-02-11 | 2003-02-21 | Shipped | 145 | not available

(5 rows)

dbda\_lab=# select first\_name from orders where customer\_id=114 and customers.customer\_id=orders.customer\_id;

ERROR: column "first\_name" does not exist

LINE 1: select first\_name from orders where customer\_id=114 and cust...

^

dbda\_lab=# select first\_name from customers, orders where customer\_id=114 and customers.customer\_id=orders.customer\_id;

ERROR: column reference "customer\_id" is ambiguous

LINE 1: select first\_name from customers, orders where customer\_id=1...

^

dbda\_lab=# select first\_name from customers, orders where orders.customer\_id=114 and customers.customer\_id=orders.customer\_id;

first\_name

------------

Ferguson

(1 row)

dbda\_lab=# select first\_name from orders where orders.customer\_id=114 and customers.customer\_id=orders.customer\_id;

ERROR: column "first\_name" does not exist

LINE 1: select first\_name from orders where orders.customer\_id=114 ...

^

dbda\_lab=# select first\_name from orders,customers where orders.customer\_id=114 and customers.customer\_id=orders.customer\_id;

first\_name

------------

Ferguson

(1 row)

dbda\_lab=# select first\_name from orders,customers where orders.customer\_id=114 ;

first\_name

------------

Atelier

Signal

Ferguson

Labrune

Bergulfsen

Nelson

Keitel

Murphy

Lee

Freyre

Berglund

Petersen

Saveley

Eric

Young

(15 rows)

dbda\_lab=# select first\_name,order\_id from orders,customers where orders.customer\_id=114 and customers.customer\_id=orders.customer\_id;

first\_name | order\_id

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

Ferguson | 10100

(1 row)

dbda\_lab=#