

# DDL Output

NOTICE: drop cascades to 13 other objects  
DROP SCHEMA

CREATE SCHEMA

SET

NOTICE: table "employee" does not exist, skipping  
NOTICE: table "department" does not exist, skipping  
NOTICE: table "customer" does not exist, skipping  
NOTICE: table "reservation" does not exist, skipping  
NOTICE: table "room" does not exist, skipping  
NOTICE: table "payment" does not exist, skipping  
DROP TABLE

CREATE TABLE  
CREATE TABLE  
ALTER TABLE  
CREATE TABLE  
CREATE TABLE  
CREATE TABLE  
CREATE TABLE

NOTICE: sequence "res\_id\_seq" does not exist, skipping  
NOTICE: sequence "receipt\_id\_seq" does not exist, skipping  
NOTICE: sequence "department\_id\_seq" does not exist, skipping  
DROP SEQUENCE

CREATE SEQUENCE  
CREATE SEQUENCE  
CREATE SEQUENCE

CREATE FUNCTION  
CREATE FUNCTION  
CREATE FUNCTION  
CREATE FUNCTION

CREATE TRIGGER  
CREATE TRIGGER  
CREATE TRIGGER  
CREATE TRIGGER

# DML Output

SET

INSERT 0 12

INSERT 0 10

INSERT 0 20

INSERT 0 10

INSERT 0 10

INSERT 0 10







UPDATE 1

# SQL Output




```
15 -- Q1: Select all columns and all rows from one table
16 SELECT * from employee;
```

Data Output Messages Notifications							
Showing rows: 1 to 10 Page No: 1 of 1							
	employeeid [PK] character (6)	lastname character varying (50)	firstname character varying (50)	departmentid character (3)	title character varying (50)	employmenttype character varying (10)	phonenumber character varyi
1	SJ2743	Smith	John	450	Sales Manager	Full-Time	123-456-7890
2	DJ1987	Doe	Jane	400	HR Specialist	Full-Time	987-654-3210
3	WA5629	Williams	Alex	500	IT Technician	Part-Time	456-789-0123
4	GM4832	Garcia	Maria	150	Housekeeping Supervi...	Full-Time	789-654-3210
5	JM1305	Johnson	Michael	100	Front Desk Receptionist	Full-Time	321-987-6540
6	LS7461	Lee	Sophia	200	Chef	Full-Time	654-321-7890
7	BD9114	Brown	David	300	Security Officer	Part-Time	987-321-4560
8	KE8046	Kim	Emily	250	Maintenance Technician	Full-Time	321-654-9870
9	AC3372	Anderson	Chris	550	Marketing Coordinator	Full-Time	789-123-6540
10	MI6790	Martinez	Isabella	350	Finance Analyst	Full-Time	654-987-3210
Total rows: 10 Query complete 00:00:00.176 CRLF Ln 16, Col 1							

18 -- Q2: Select five columns and all rows from one table

Data Output Messages Notifications					
Showing rows: 1 to 20  Page No					
	roomid [PK] character (3) 	resid character (12) 	roomtype character varying (20) 	roomview character varying (50) 	maxoccupancy integer 
1	101	[null]	Family	Ocean View	6
2	102	100000000001	Double	City View	4
3	103	100000000004	King	Ocean View	2
4	104	[null]	Double	Pool View	4
5	105	100000000002	King	City View	2
6	201	[null]	Family	Ocean View	6
7	202	100000000009	Double	City View	4
8	203	100000000003	King	Ocean View	2
9	204	100000000003	Double	Pool View	4
10	205	[null]	King	City View	2
11	301	[null]	Family	Ocean View	6
12	302	100000000005	Double	City View	4
13	303	100000000005	King	Ocean View	2
Total rows: 20 Query complete 00:00:00.146					

22 -- Q3: Select all columns from all rows from one view

Data Output Messages Notifications			
Showing			
	roomview character varying (50) 	floor integer 	roomtype character varying (20) 
1	Ocean View	1	Family
2	City View	1	Double
3	Pool View	1	Double
4	Ocean View	2	Family
5	City View	2	Double
6	Pool View	2	Double
7	Ocean View	3	Family
8	City View	3	Double
9	Pool View	3	Double
10	Ocean View	4	Family
11	City View	4	Double
12	Pool View	4	Double
Total rows: 12 Query complete 00:00:00.121			

```
32 -- Q4: Using a join on 2 tables, select all columns and all rows from the tables without the use of a Cart
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Data Output

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Showing rows: 1 to 13

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	resid character (12)	accountid character (8)	roomquantity integer	partysize integer	checkin date	checkout date	roomid character (3)	resid character (12)	roomtype character varying (20)
1	100000000001	AUEE9347	1	3	2025-06-15	2025-06-20	102	100000000001	Double
2	100000000004	SVN93W02	1	2	2025-06-05	2025-06-07	103	100000000004	King
3	100000000002	F904WFHS	1	2	2025-07-05	2025-07-08	105	100000000002	King
4	100000000009	PQ2WSG81	1	3	2025-09-02	2025-09-05	202	100000000009	Double
5	100000000003	SRG9WKND	2	4	2025-10-01	2025-10-03	203	100000000003	King
6	100000000003	SRG9WKND	2	4	2025-10-01	2025-10-03	204	100000000003	Double
7	100000000005	NAEGP923	2	4	2025-08-20	2025-08-25	302	100000000005	Double
8	100000000005	NAEGP923	2	4	2025-08-20	2025-08-25	303	100000000005	King
9	100000000006	VR84320F	1	2	2025-06-12	2025-06-18	304	100000000006	Double
10	100000000007	SP294ASP	2	6	2025-07-01	2025-07-07	401	100000000007	Family
11	100000000007	SP294ASP	2	6	2025-07-01	2025-07-07	402	100000000007	Double
12	100000000008	AQF39HSQ	1	4	2025-08-18	2025-08-22	404	100000000008	Double

Total rows: 13

Query complete 00:00:00.125

CRLF

Ln 33, Col 1

```
38 -- Q5: Select and order data retrieved from one table
39 ✓ SELECT * from payment
40 ORDER BY totalamount;
```

Data Output

Messages

Notifications

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Showing rows: 1 to 10

Page No: 1

	receiptid [PK] character (10)	resid character (12)	paymentmethod character varying (50)	totalamount numeric (10,2)	datepaid date	notes text
1	3000000002	100000000002	Credit Card	150.00	2025-04-02	Paid in cash at counter
2	3000000010	100000000010	Credit Card	180.00	2025-04-10	Paid same day
3	3000000006	100000000006	Credit Card	190.00	2025-04-06	[null]
4	3000000004	100000000004	Debit Card	220.00	2025-04-04	Paid via debit
5	3000000001	100000000001	Credit Card	250.00	2025-04-01	Paid in full
6	3000000005	100000000005	Credit Card	275.00	2025-04-05	Online transfer
7	3000000003	100000000003	Credit Card	300.00	2025-04-03	[null]
8	3000000007	100000000007	Debit Card	310.00	2025-04-07	Discount applied
9	3000000009	100000000009	Debit Card	400.00	2025-04-09	Late fee included
10	3000000008	100000000008	Debit Card	450.00	2025-04-08	[null]
Total rows: 10			Query complete 00:00:00.188			

```

42  -- Q6: Using a join on 3 tables, select 5 columns from the 3 tables.
43  --Use syntax that would limit the output to 3 rows
44  ✓ SELECT p.receiptid, re.resid, re.accountid, r.roomid, r.roomtype
45  FROM payment p
46  LEFT OUTER JOIN reservation re
47  ON p.resid=re.resid
48  LEFT OUTER JOIN room r
49  ON re.resid=r.resid
50  LIMIT 3;

```

Data Output Messages Notifications

	receiptid character (10)	resid character (12)	accountid character (8)	roomid character (3)	roomtype character varying (20)
1	3000000001	100000000001	AUEE9347	102	Double
2	3000000002	100000000002	F904WFHS	105	King
3	3000000003	100000000003	SRG9WKND	203	King

```

52  -- Q7: Select distinct rows using joins on 3 tables
53  -- Customers who have notes added to their reservation

```

	accountid character (8)	lastname character varying (50)	firstname character varying (50)	email character varying (100)	phonenumber character varying (15)	resid character (12)	accountid character (8)
1	F904WFHS	Nguyen	Lilia	liNguyen031@yahoo.com	289-987-6543	100000000002	F904WFHS
2	NAEGP923	Miller	Sabrina	sabrinaqueen@yahoo.com	917-753-1986	100000000005	NAEGP923
3	PQ2WSG81	Toups	Angela	angela.lotus00@gmail.com	479-026-9785	100000000009	PQ2WSG81
4	EOD024WS	Patel	Kevin	kevinpatel219@yahoo.com	389-915-6374	100000000010	EOD024WS
5	SP294ASP	Monroe	Maria	yummymm96@gmail.com	853-648-3109	100000000007	SP294ASP
6	AUEE9347	Anderson	Sam	samoldsame@gmail.com	489-123-4567	100000000001	AUEE9347
7	SVN93W02	Brown	Lucas	lucas.brownie@gmail.com	912-135-7910	100000000004	SVN93W02

Total rows: 7    Query complete 00:00:00.147    CRLF    Ln 54, Col 1

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62  -- Q8: Use GROUP BY and HAVING in a select statement using one or more tables
63  --Filter the information of departments with fewer than 5 employees
64  --Display the department id, department name, number of employees

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Showing rows: 1 to 10

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Page No:

	<div>departmentid</div> <div>[PK] character (3) ✎</div>	<div>departmentname</div> <div>character varying (100) ✎</div>	<div>count</div> <div>bigint 🔒</div>
1	250	Maintenance	1
2	350	Accounting	1
3	400	Human Resources	1
4	500	IT Support	1
5	100	Front Desk	1
6	300	Security	1
7	550	Events and Banquets	1
8	450	Sales and Marketing	1
9	150	Housekeeping	1
10	200	Food and Beverage	1

Total rows: 10

Query complete 00:00:00.111

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76  -- Q9: Use IN clause to select data from one or more tables

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Showing rows: 1 to 13

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	roomid [PK] character (3) ✎	resid character (12) ✎	roomtype character varying (20) ✎	roomview character varying (50) ✎	maxoccupancy integer ✎	floor integer ✎
1	102	100000000001	Double	City View	4	1
2	103	100000000004	King	Ocean View	2	1
3	105	100000000002	King	City View	2	1
4	202	100000000009	Double	City View	4	2
5	203	100000000003	King	Ocean View	2	2
6	204	100000000003	Double	Pool View	4	2
7	302	100000000005	Double	City View	4	3
8	303	100000000005	King	Ocean View	2	3
9	304	100000000006	Double	Pool View	4	3
10	401	100000000007	Family	Ocean View	6	4
11	402	100000000007	Double	City View	4	4
12	404	100000000008	Double	Pool View	4	4
13	405	100000000010	King	City View	2	4

Total rows: 13

Query complete 00:00:00.166

84 -- Q10: Select length of one column from one table (use LENGTH function)

Data Output Messages Notifications

Showing rows: 1 to 10

	length integer
1	4
2	4
3	4
4	5
5	7
6	6
7	5
8	5
9	5
10	8

Total rows: 10 Query complete 00:00:00.101

```
88 -- Q11: Delete one record from one table.  
89 -- Use select statements to demonstrate the table contents before and after the DELETE statement  
90 -- Make sure you use ROLLBACK afterwards so that the data will not be physically removed  
91 -- Begin the transaction  
92  
93 BEGIN;
```

Data Output Messages Notifications

BEGIN

```
95 SELECT * FROM customer ORDER BY accountid;
```

Data Output Messages Notifications

	accountid [PK] character (8)	lastname character varying (50)	firstname character varying (50)	email character varying (100)	phonenumber character varying (15)
1	AQF39HSQ	Martinez	Christopher	chri.smart@icloud.com	786-537-0897
2	AUEE9347	Anderson	Sam	samoldsame@gmail.com	489-123-4567
3	EOD024WS	Patel	Kevin	kevinpatel219@yahoo.com	389-915-6374
4	F904WFHS	Nguyen	Lilla	liInguyen031@yahoo.com	289-987-6543
5	JROWG903	Davis	Patricia	patdavis98@hotmail.com	426-864-2098
6	NAEGP923	Miller	Sabrina	sabrinaqueen@yahoo.com	917-753-1986
7	PQ2WSG81	Toups	Angela	angela.lotus00@gmail.com	479-026-9785
8	PVB843SK	Garcia	Jenna	jenna.garcia117@gmail.com	512-319-7410
9	SP294ASP	Monroe	Maria	yummymm96@gmail.com	853-648-3109
10	SRG9WKND	Williams	Erik	eriknotme@icloud.com	378-246-8012
11	SVN93W02	Brown	Lucas	lucas.brownie@gmail.com	912-135-7910
12	VR84320F	Rodriguez	Linda	lindarod445@icloud.com	714-420-8521

Total rows: 12 Query complete 00:00:00.115

```

97  ✓ DELETE FROM customer
98  WHERE accountid = (
99      SELECT accountid
100  FROM customer
101  WHERE accountid NOT IN (SELECT accountid FROM reservation)
102  LIMIT 1
103  );

```

Data Output Messages Notifications

DELETE 1

```

105  SELECT * FROM customer ORDER BY accountid;

```

Data Output Messages Notifications

	accountid [PK] character (8)	lastname character varying (50)	firstname character varying (50)	email character varying (100)	phonenumber character varying (15)
1	AQF39HSQ	Martinez	Christopher	chri.smart@icloud.com	786-537-0897
2	AUEE9347	Anderson	Sam	samoldsame@gmail.com	489-123-4567
3	EOD024WS	Patel	Kevin	kevinpatel219@yahoo.com	389-915-6374
4	F904WFHS	Nguyen	Lilia	lilnguyen031@yahoo.com	289-987-6543
5	NAEGP923	Miller	Sabrina	sabrinaqueen@yahoo.com	917-753-1986
6	PQ2WSG81	Toups	Angela	angela.lotus00@gmail.com	479-026-9785
7	PVB843SK	Garcia	Jenna	jenna.garcia117@gmail.com	512-319-7410
8	SP294ASP	Monroe	Maria	yummymm96@gmail.com	853-648-3109
9	SRG9WKND	Williams	Erik	eriknotme@icloud.com	378-246-8012
10	SVN93W02	Brown	Lucas	lucas.brownie@gmail.com	912-135-7910
11	VR84320F	Rodriguez	Linda	lindarod445@icloud.com	714-420-8521
Total rows: 11		Query complete 00:00:00.167			

106

```

107  ROLLBACK;

```

Data Output Message

ROLLBACK



```
109 SELECT * FROM customer ORDER BY accountid;
```

Data Output Messages Notifications

	accountid [PK] character (8)	lastname character varying (50)	firstname character varying (50)	email character varying (100)	phonenumber character varying (15)
1	AQF39HSQ	Martinez	Christopher	chri.smart@icloud.com	786-537-0897
2	AUEE9347	Anderson	Sam	samoldsame@gmail.com	489-123-4567
3	EOD024WS	Patel	Kevin	kevinpatel219@yahoo.com	389-915-6374
4	F904WFHS	Nguyen	Lilia	lilinguyen031@yahoo.com	289-987-6543
5	JROWG903	Davis	Patricia	patdavis98@hotmail.com	426-864-2098
6	NAEGP923	Miller	Sabrina	sabrinaqueen@yahoo.com	917-753-1986
7	PQ2WSG81	Toups	Angela	angela.lotus00@gmail.com	479-026-9785
8	PVB843SK	Garcia	Jenna	jenna.garcia117@gmail.com	512-319-7410
9	SP294ASP	Monroe	Maria	yummymm96@gmail.com	853-648-3109
10	SRG9WKND	Williams	Erik	eriknotme@icloud.com	378-246-8012
11	SVN93W02	Brown	Lucas	lucas.brownie@gmail.com	912-135-7910
12	VR84320F	Rodriguez	Linda	lindarod445@icloud.com	714-420-8521

Total rows: 12 Query complete 00:00:00.100

```
111 -- Q12: Update one record from one table.  
112 -- Use select statements to demonstrate the table contents before and after the UPDATE statement  
113 -- Make sure you use ROLLBACK afterwards so that the data will not be physically removed  
114 -- Start a transaction and show contents before update  
115 BEGIN;  
116 SELECT * FROM room;
```

Data Output Messages Notifications

	roomid [PK] character (3)	resid character (12)	roomtype character varying (20)	roomview character varying (50)	maxoccupancy integer	floor integer
1	101	[null]	Family	Ocean View	6	1
2	102	1000000000001	Double	City View	4	1
3	103	1000000000004	King	Ocean View	2	1
4	104	[null]	Double	Pool View	4	1
5	105	1000000000002	King	City View	2	1
6	201	[null]	Family	Ocean View	6	2
7	202	1000000000009	Double	City View	4	2
8	203	1000000000003	King	Ocean View	2	2
9	204	1000000000003	Double	Pool View	4	2

Total rows: 20 Query complete 00:00:00.108 CRLF Lr

```
118 -- Update table  
119 UPDATE room  
120 SET maxoccupancy = 2  
121 WHERE roomtype='Double';
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Data Output Messages Notifications

UPDATE 8

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124 SELECT * FROM room;
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Showing rows: 1 to 20

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Page No: 1

Total rows: 20      Query complete 00:00:00.155

```
127 ROLLBACK;
```

```
128 SELECT * FROM room:
```

Showing rows: 1 to 20 Page No: 1

Total rows: 20      Query complete 00:00:00.106

```

130 -- Q13: Additional Advanced Queries
131 /* Identify customers based on total payments, and classify them by spending amount.
132 Only include customer who has spent more than the average total spending */

```

Data Output Messages Notifications

	customername text	totalreservations bigint	latestreservation date	totalspent numeric	avgpaymentperreservation numeric	spendingtier text
1	Christopher Martinez	1	2025-08-18	450.00	450.00	Platinum
2	Angela Touns	1	2025-09-02	400.00	400.00	Platinum
3	Maria Monroe	1	2025-07-01	310.00	310.00	Gold
4	Erik Williams	1	2025-10-01	300.00	300.00	Gold
5	Sabrina Miller	1	2025-08-20	275.00	275.00	Gold

```

180 -- Q14: Additional Advanced Queries
181 /* Identify long-stay customers who stayed more than 3 days.
182 Show account ID, full customer name, and length of stay. Sort results by length of stay in descending order

```

Data Output Messages Notifications

	accountid [PK] character (8)	CustomerName text	LengthOfStay integer
1	VR84320F	Linda Rodriguez	6
2	SP294ASP	Maria Monroe	6
3	AUEE9347	Sam Anderson	5
4	NAEGP923	Sabrina Miller	5
5	AQF39HSQ	Christopher Martinez	4
6	EOD024WS	Kevin Patel	4