INSERT OPERATION:

1. **USER Table:**

```sql
INSERT INTO "USER" (User_ID, Name, Email, Signup_Date, Role, Country)
VALUES
(1, 'Alice Johnson', 'alice@example.com', '2023-01-10', NULL, 'USA'),
(2, 'Bob Smith', 'bob@example.com', '2023-02-15', 'Admin', 'UK'),
(3, 'Charlie Brown', 'charlie@example.com', '2023-03-20', NULL, 'Canada'),
(4, 'Diana Prince', 'diana@example.com', '2023-04-25', 'User',
'Australia'),
(5, 'Ethan Hunt', 'ethan@example.com', '2023-05-30', NULL, 'India'),
(6, 'Fiona Gallagher', 'fiona@example.com', '2023-06-05', 'Moderator',
'Ireland'),
(7, 'George Martin', 'george@example.com', '2023-07-10', NULL, 'USA'),
(8, 'Hannah Baker', 'hannah@example.com', '2023-08-15', 'User', 'UK'),
(9, 'Ian Malcolm', 'ian@example.com', '2023-09-20', NULL, 'Canada'),
(10, 'Jane Doe', 'jane@example.com', '2023-10-25', 'Admin', 'Australia'),
(11, 'Kevin Hart', 'kevin@example.com', '2023-11-30', NULL, 'India'),
(12, 'Laura Palmer', 'laura@example.com', '2023-12-05', 'User',
'Ireland'),
(13, 'Michael Scott', 'michael@example.com', '2024-01-10', NULL, 'USA'),
(14, 'Nina Dobrev', 'nina@example.com', '2024-02-15', 'Moderator', 'UK'),
(15, 'Oscar Wilde', 'oscar@example.com', '2024-03-20', NULL, 'Canada');
```

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No limit

Query   Query History

```sql
1   SELECT * FROM "USER"
```

Data Output   Messages   Notifications

Showing rows: 1 to 15

	user_id [PK] integer	name character varying (100)	email character varying (100)	signup_date date	role character varying (50)	country character varying (50)
1	1	Alice Johnson	alice@example.com	2023-01-10	User	USA
2	2	Bob Smith	bob@example.com	2023-02-15	Admin	UK
3	3	Charlie Brown	charlie@example.com	2023-03-20	User	Canada
4	4	Diana Prince	diana@example.com	2023-04-25	User	Australia
5	5	Ethan Hunt	ethan@example.com	2023-05-30	User	India
6	6	Fiona Gallagher	fiona@example.com	2023-06-05	Moderator	Ireland
7	7	George Martin	george@example.com	2023-07-10	User	USA
8	8	Hannah Baker	hannah@example.com	2023-08-15	User	UK
9	9	Ian Malcolm	ian@example.com	2023-09-20	User	Canada
10	10	Jane Doe	jane@example.com	2023-10-25	Admin	Australia
11	11	Kevin Hart	kevin@example.com	2023-11-30	User	India
12	12	Laura Palmer	laura@example.com	2023-12-05	User	Ireland
13	13	Michael Scott	michael@example.com	2024-01-10	User	USA
14	14	Nina Dobrev	nina@example.com	2024-02-15	Moderator	UK
15	15	Oscar Wilde	oscar@example.com	2024-03-20	User	Canada

2. DEVELOPER Table:

```sql
INSERT INTO DEVELOPER (Developer_ID, Name, Contact_Info, Description,
Revenue, Country) VALUES
(1, 'DevOne', 'contact@devone.com', 'Leading app developer', 500000.00,
'USA'),
(2, 'TechSoft', 'info@techsoft.com', 'Innovative solutions', 750000.00,
'UK'),
(3, 'AppMakers', 'support@appmakers.com', 'Creative app development',
300000.00, 'Canada'),
(4, 'CodeCrafters', 'hello@codecrafters.com', 'Quality code', 450000.00,
'Australia'),
(5, 'NextGenApps', 'contact@nextgenapps.com', 'Future of apps', 600000.00,
'India'),
(6, 'SoftSolutions', 'info@softsolutions.com', 'Reliable software',
550000.00, 'Ireland'),
(7, 'Innovatech', 'support@innovatech.com', 'Innovative tech', 700000.00,
'USA'),
(8, 'AlphaApps', 'hello@alphaapps.com', 'Alpha quality apps', 650000.00,
'UK'),
(9, 'BetaSoft', 'contact@betasoft.com', 'Beta testing experts', 400000.00,
'Canada'),
(10, 'GammaTech', 'info@gammatech.com', 'Gamma technology', 350000.00,
'Australia'),
(11, 'DeltaDevs', 'support@deltadevs.com', 'Delta development', 480000.00,
'India'),
(12, 'EpsilonApps', 'hello@epsilonapps.com', 'Epsilon level apps',
520000.00, 'Ireland'),
(13, 'ZetaSoft', 'contact@zetasoft.com', 'Zeta software solutions',
580000.00, 'USA'),
(14, 'EtaTech', 'info@etatech.com', 'Eta technology services', 620000.00,
'UK'),
(15, 'ThetaApps', 'support@thetaapps.com', 'Theta app development',
470000.00, 'Canada');
```

Query | Query History

```
1  SELECT * FROM developer
2
```

Data Output | Messages | Notifications

Showing rows: 1 to 15

developer_id [PK] integer	name character varying (100)	contact_info character varying (100)	description text	revenue numeric (15,2)	country character varying (50)
1	DevOne	contact@devone.com	Leading app developer	500000.00	USA
2	TechSoft	info@techsoft.com	Innovative solutions	750000.00	UK
3	AppMakers	support@appmakers.com	Creative app development	300000.00	Canada
4	CodeCrafters	hello@codecrafters.com	Quality code	450000.00	Australia
5	NextGenApps	contact@nextgenapps.com	Future of apps	600000.00	India
6	SoftSolutions	info@softsolutions.com	Reliable software	550000.00	Ireland
7	Innovatech	support@innovatech.com	Innovative tech	700000.00	USA
8	AlphaApps	hello@alphaapps.com	Alpha quality apps	650000.00	UK
9	BetaSoft	contact@betasoft.com	Beta testing experts	400000.00	Canada
10	GammaTech	info@gammatech.com	Gamma technology	350000.00	Australia
11	DeltaDevs	support@deltadevs.com	Delta development	480000.00	India
12	EpsilonApps	hello@epsilonapps.com	Epsilon level apps	520000.00	Ireland
13	ZetaSoft	contact@zetasoft.com	Zeta software solutions	580000.00	USA
14	EtaTech	info@etatech.com	Eta technology services	620000.00	UK
15	ThetaApps	support@thetaapps.com	Theta app development	470000.00	Canada

3. APPLICATION Table:

```sql
INSERT INTO APPLICATION (App_ID, Name, Release_Date, Description, Size,
Price, Number_of_Downloads) VALUES
(1, 'ChatMaster', '2023-01-01', 'Messaging app', 50.5, 0.00, 1000),
(2, 'PhotoEditPro', '2023-02-10', 'Photo editing tools', 75.0, 4.99, 500),
(3, 'GameZone', '2023-03-15', 'Arcade games', 120.0, 2.99, 1500),
(4, 'FitnessPlus', '2023-04-20', 'Workout tracker', 60.0, 0.00, 800),
(5, 'MusicStream', '2023-05-25', 'Music streaming', 90.0, 9.99, 2000),
(6, 'NoteKeeper', '2023-06-30', 'Note-taking app', 30.0, 0.00, 600),
(7, 'WeatherNow', '2023-07-05', 'Weather forecasts', 40.0, 1.99, 700),
(8, 'TravelGuide', '2023-08-10', 'Travel planning', 85.0, 3.99, 900),
(9, 'BudgetBuddy', '2023-09-15', 'Expense tracker', 55.0, 0.00, 400),
(10, 'LanguageLearner', '2023-10-20', 'Language learning', 95.0, 5.99,
1100),
(11, 'RecipeBook', '2023-11-25', 'Cooking recipes', 65.0, 2.49, 300),
(12, 'NewsDaily', '2023-12-30', 'Daily news updates', 70.0, 0.00, 1200),
(13, 'MindRelax', '2024-01-05', 'Meditation and relaxation', 80.0, 6.99,
500),
(14, 'StudyHelper', '2024-02-10', 'Study tools', 45.0, 0.00, 600),
(15, 'ArtStudio', '2024-03-15', 'Digital art creation', 100.0, 7.99, 700);
```

Query   Query History

```sql
1  SELECT * FROM application
```

Data Output   Messages   Notifications

Showing rows: 1 to 15   Page No

	app_id [PK] integer	name character varying (100)	release_date date	description text	size numeric (10,2)	price numeric (10,2)	number_of_downloads integer
1	1	ChatMaster	2023-01-01	Messaging app	50.50	0.00	1000
2	2	PhotoEditPro	2023-02-10	Photo editing tools	75.00	4.99	500
3	3	GameZone	2023-03-15	Arcade games	120.00	2.99	1500
4	4	FitnessPlus	2023-04-20	Workout tracker	60.00	0.00	800
5	5	MusicStream	2023-05-25	Music streaming	90.00	9.99	2000
6	6	NoteKeeper	2023-06-30	Note-taking app	30.00	0.00	600
7	7	WeatherNow	2023-07-05	Weather forecasts	40.00	1.99	700
8	8	TravelGuide	2023-08-10	Travel planning	85.00	3.99	900
9	9	BudgetBuddy	2023-09-15	Expense tracker	55.00	0.00	400
10	10	LanguageLearner	2023-10-20	Language learning	95.00	5.99	1100
11	11	RecipeBook	2023-11-25	Cooking recipes	65.00	2.49	300
12	12	NewsDaily	2023-12-30	Daily news updates	70.00	0.00	1200
13	13	MindRelax	2024-01-05	Meditation and relaxation	80.00	6.99	500
14	14	StudyHelper	2024-02-10	Study tools	45.00	0.00	600
15	15	ArtStudio	2024-03-15	Digital art creation	100.00	7.99	700

✓ Successfully run. Total que

Total rows: 15   Query complete 00:00:00.176

4. UPDATES Table:

```sql
INSERT INTO UPDATES (App_ID, Update_Size, Release_Date, Version) VALUES
(1, 10.5, '2023-02-01', '1.1'),
(1, 12.0, '2023-03-01', '1.2'),
(2, 15.0, '2023-03-15', '2.0'),
(3, 20.0, '2023-04-10', '1.1'),
(4, 5.0, '2023-05-05', '1.0.1'),
(5, 25.0, '2023-06-01', '3.0'),
(6, 8.0, '2023-07-01', '1.1'),
(7, 9.5, '2023-08-01', '1.2'),
(8, 11.0, '2023-09-01', '2.0'),
(9, 6.0, '2023-10-01', '1.1'),
(10, 14.0, '2023-11-01', '1.3'),
(11, 7.0, '2023-12-01', '1.1'),
(12, 13.0, '2024-01-01', '2.0'),
(13, 10.0, '2024-02-01', '1.2'),
(14, 9.0, '2024-03-01', '1.1');
```

Query Query History

```
1  SELECT * FROM updates
```

Data Output Messages Notifications

Showing rows: 1 to 15

	app_id [PK] integer	update_size numeric (10,2)	release_date date	version [PK] character varying (20)
1	1	10.50	2023-02-01	1.1
2	1	12.00	2023-03-01	1.2
3	2	15.00	2023-03-15	2.0
4	3	20.00	2023-04-10	1.1
5	4	5.00	2023-05-05	1.0.1
6	5	25.00	2023-06-01	3.0
7	6	8.00	2023-07-01	1.1
8	7	9.50	2023-08-01	1.2
9	8	11.00	2023-09-01	2.0
10	9	6.00	2023-10-01	1.1
11	10	14.00	2023-11-01	1.3
12	11	7.00	2023-12-01	1.1
13	12	13.00	2024-01-01	2.0
14	13	10.00	2024-02-01	1.2
15	14	9.00	2024-03-01	1.1

✓ Successfully run

Total rows: 15   Query complete 00:00:00.211

5. PERMISSION Table:

```sql
INSERT INTO PERMISSION (App_ID, Permission) VALUES
(1, 'Internet'), (1, 'Storage'), (1, 'Camera'), (1, 'Microphone'),
(2, 'Internet'), (2, 'Storage'), (2, 'Location'),
(3, 'Internet'), (3, 'Storage'), (3, 'Location'), (3, 'Contacts'),
(4, 'Internet'), (4, 'Storage'), (4, 'Health Data'), (4, 'Camera'),
(5, 'Internet'), (5, 'Storage'), (5, 'Microphone'),
(6, 'Internet'), (6, 'Storage'), (6, 'Contacts'), (6, 'Calendar'),
(7, 'Internet'), (7, 'Storage'), (7, 'Location'), (7, 'Camera'),
(8, 'Internet'), (8, 'Storage'), (8, 'Calendar'), (8, 'Contacts'),
(9, 'Internet'), (9, 'Storage'), (9, 'Contacts'),
(10, 'Internet'), (10, 'Storage'), (10, 'Microphone'),
(11, 'Internet'), (11, 'Storage'), (11, 'Camera'),
(12, 'Internet'), (12, 'Storage'), (12, 'Microphone'), (12, 'Location'),
(13, 'Internet'), (13, 'Storage'), (13, 'Health Data'), (13, 'Calendar'),
(14, 'Internet'), (14, 'Storage'), (14, 'Contacts');
```

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No limit

Query   Query History

```
1    SELECT * From permission
```

Data Output   Messages   Notifications

Showing rows: 1 to

	app_id [PK] integer	permission [PK] character varying (100)
1	1	Internet
2	1	Storage
3	1	Camera
4	1	Microphone
5	2	Internet
6	2	Storage
7	2	Location
8	3	Internet
9	3	Storage
10	3	Location
11	3	Contacts
12	4	Internet
13	4	Storage
14	4	Health Data
15	4	Camera
16	5	Internet
17	5	Storage
18	5	Microphone
19	6	Internet

Total rows: 50   Query complete 00:00:00.525
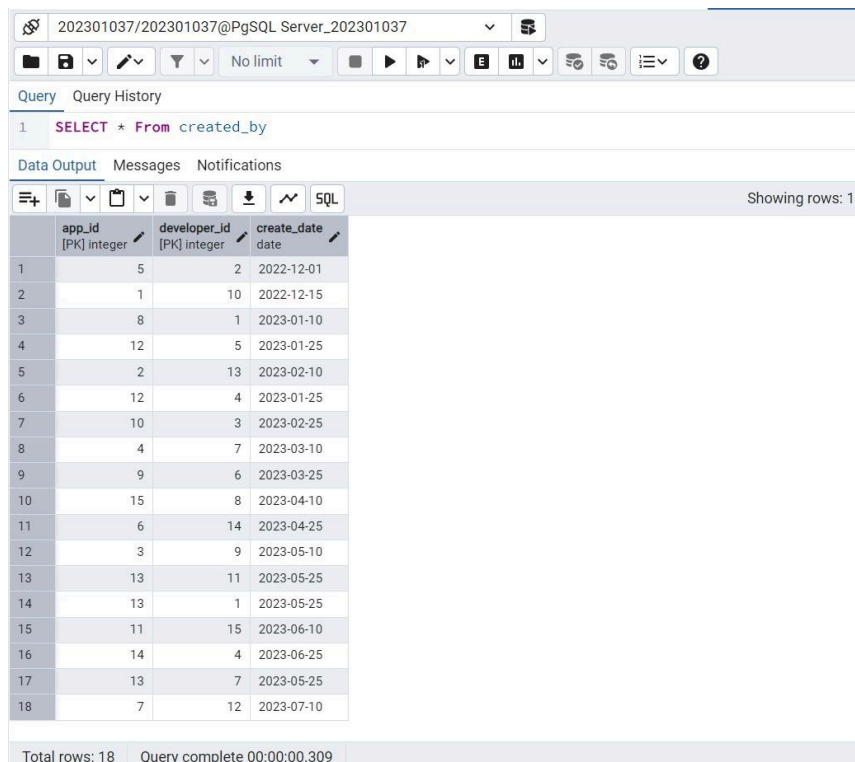
6. DOWNLOAD_BY Table:

```
INSERT INTO DOWNLOAD_BY (App_ID, User_ID, Download_Date) VALUES
(1, 1, '2023-01-15'),
(1, 2, '2023-01-16'),
(1, 3, '2023-01-17'),
(2, 2, '2023-02-16'),
(2, 4, '2023-02-18'),
(3, 3, '2023-03-21'),
(3, 5, '2023-03-25'),
(4, 4, '2023-04-26'),
(4, 1, '2023-04-28'),
(4, 6, '2023-04-29'),
(5, 5, '2023-05-31'),
```

```
(5, 7, '2023-06-01'),
(6, 6, '2023-06-06'),
(6, 2, '2023-06-07'),
(7, 7, '2023-07-11'),
(7, 8, '2023-07-12'),
(8, 8, '2023-08-16'),
(8, 9, '2023-08-17'),
(9, 9, '2023-09-21'),
(9, 10, '2023-09-22'),
(9, 1, '2023-09-23'),
(10, 10, '2023-10-26'),
(10, 3, '2023-10-27'),
(11, 11, '2023-11-30'),
(11, 2, '2023-12-01'),
(12, 12, '2023-12-06'),
(12, 4, '2023-12-07'),
(13, 13, '2024-01-11'),
(13, 5, '2024-01-12'),
(13, 6, '2024-01-13'),
(14, 14, '2024-02-16'),
(14, 7, '2024-02-18'),
(15, 15, '2024-03-21'),
(15, 1, '2024-03-22');
```

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Query   Query History

```
1    SELECT * From download_by
```

Data Output   Messages   Notifications

Showing rows: 1 to 34

	app_id [PK] integer	user_id [PK] integer	download_date [PK] date
1	1	1	2023-01-15
2	1	2	2023-01-16
3	1	3	2023-01-17
4	2	2	2023-02-16
5	2	4	2023-02-18
6	3	3	2023-03-21
7	3	5	2023-03-25
8	4	4	2023-04-26
9	4	1	2023-04-28
10	4	6	2023-04-29
11	5	5	2023-05-31
12	5	7	2023-06-01
13	6	6	2023-06-06
14	6	2	2023-06-07
15	7	7	2023-07-11
16	7	8	2023-07-12
17	8	8	2023-08-16
18	8	9	2023-08-17

Total rows: 34   Query complete 00:00:00.222

7. CREATED_BY Table:

```sql
INSERT INTO CREATED_BY (App_ID, Developer_ID, Create_Date) VALUES
(5, 2, '2022-12-01'),
(1, 10, '2022-12-15'),
(8, 1, '2023-01-10'),
(12, 5, '2023-01-25'),
(2, 13, '2023-02-10'),
(12, 4, '2023-01-25'),
(10, 3, '2023-02-25'),
(4, 7, '2023-03-10'),
(9, 6, '2023-03-25'),
(15, 8, '2023-04-10'),
(6, 14, '2023-04-25'),
(3, 9, '2023-05-10'),
(13, 11, '2023-05-25'),
(13, 1, '2023-05-25'),
(11, 15, '2023-06-10'),
(14, 4, '2023-06-25'),
(13, 7, '2023-05-25'),
(7, 12, '2023-07-10');
```

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Query   Query History

```
1   SELECT * From created_by
```

Data Output   Messages   Notifications

Showing rows: 1

	app_id [PK] integer	developer_id [PK] integer	create_date date
1	5	2	2022-12-01
2	1	10	2022-12-15
3	8	1	2023-01-10
4	12	5	2023-01-25
5	2	13	2023-02-10
6	12	4	2023-01-25
7	10	3	2023-02-25
8	4	7	2023-03-10
9	9	6	2023-03-25
10	15	8	2023-04-10
11	6	14	2023-04-25
12	3	9	2023-05-10
13	13	11	2023-05-25
14	13	1	2023-05-25
15	11	15	2023-06-10
16	14	4	2023-06-25
17	13	7	2023-05-25
18	7	12	2023-07-10

Total rows: 18   Query complete 00:00:00.309

8. CATEGORY Table:

```sql
INSERT INTO CATEGORY (Category_ID, Name, Type) VALUES
(1, 'Productivity', 'App'),
(2, 'Photography', 'App'),
(3, 'Games', 'App'),
(4, 'Health & Fitness', 'App'),
(5, 'Music', 'App'),
(6, 'Lifestyle', 'App'),
(7, 'Weather', 'App'),
(8, 'Travel', 'App'),
(9, 'Finance', 'App'),
(10, 'Education', 'App'),
(11, 'Cooking', 'App'),
(12, 'News', 'App'),
(13, 'Meditation', 'App'),
(14, 'Study', 'App'),
(15, 'Art & Design', 'App');
```

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The session is idle and there is no current transaction.

Query   Query History

```sql
1    SELECT * From category
```

Data Output   Messages   Notifications

Showing rows: 1

	category_id [PK] integer	name character varying (100)	type character varying (50)
1	1	Productivity	App
2	2	Photography	App
3	3	Games	App
4	4	Health & Fitness	App
5	5	Music	App
6	6	Lifestyle	App
7	7	Weather	App
8	8	Travel	App
9	9	Finance	App
10	10	Education	App
11	11	Cooking	App
12	12	News	App
13	13	Meditation	App
14	14	Study	App
15	15	Art & Design	App

9. BELONGS_TO_1 (App to Category):

```sql
INSERT INTO BELONGS_TO_1 (App_ID, Category_ID) VALUES
(1, 1),
(1, 3),
(2, 2),
(2, 5),
(3, 3),
(3, 1),
(4, 4),
(4, 6),
(5, 2),
(5, 7),
(6, 1),
(6, 8),
(7, 7),
(7, 4),
(8, 5),
(8, 9),
(9, 3),
(9, 10),
(10, 10),
(10, 6),
(11, 11),
(11, 2),
(12, 12),
(12, 8),
(13, 13),
(13, 4),
(14, 9),
(14, 5),
(15, 15),
(15, 6);
```

The session is idle and there is no current transaction.

Query   Query History

```sql
1   SELECT * From belongs_to_1
```

Data Output   Messages   Notifications

SQL   Showing row

	app_id [PK] integer	category_id [PK] integer
1	1	1
2	1	3
3	2	2
4	2	5
5	3	3
6	3	1
7	4	4
8	4	6
9	5	2
10	5	7
11	6	1
12	6	8
13	7	7
14	7	4
15	8	5
16	8	9
17	9	3
18	9	10
19	10	10

✓ Succes

10. BOOKS Table:

```sql
INSERT INTO BOOKS (Book_ID, Title, Price, Release_Date, Publisher,
Number_of_Sold_Books) VALUES
(1, 'The Great Adventure', 9.99, '2020-01-01', 'Adventure Press', 1000),
(2, 'Photography 101', 14.99, '2020-02-15', 'Photo World', 800),
(3, 'Gaming Strategies', 19.99, '2020-03-20', 'Game House', 1200),
(4, 'Healthy Living', 11.99, '2020-04-25', 'Health First', 900),
(5, 'Music Theory', 13.99, '2020-05-30', 'Melody Makers', 700),
(6, 'Cooking for Beginners', 10.49, '2020-06-10', 'Kitchen Kings', 850),
(7, 'The Art of Mindfulness', 12.99, '2020-07-15', 'Peace Publishers',
950),
(8, 'Tech Trends 2021', 16.49, '2020-08-20', 'Innovate Now', 1100),
(9, 'Mastering Chess', 18.00, '2020-09-25', 'Board Mind', 600),
```

```
(10, 'World History Explained', 15.75, '2020-10-30', 'Historical House',
740),
(11, 'Modern Poetry', 9.50, '2020-11-20', 'VerseWorks', 500),
(12, 'Fitness Fundamentals', 13.25, '2021-01-05', 'Health First', 920),
(13, 'Digital Marketing Guide', 17.99, '2021-02-14', 'Market Media',
1050),
(14, 'Science Fiction Tales', 11.75, '2021-03-18', 'SciFiWorld', 880),
(15, 'Investing Basics', 14.00, '2021-04-22', 'Finance Forge', 990);
```

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No limit

Save File
Ctrl S T * From books

Data Output   Messages   Notifications

Showing rows: 1 to 15   Page No:

	book_id [PK] integer	title character varying (100)	price numeric (10,2)	release_date date	publisher character varying (100)	number_of_sold_books integer
1	1	The Great Adventure	9.99	2020-01-01	Adventure Press	1000
2	2	Photography 101	14.99	2020-02-15	Photo World	800
3	3	Gaming Strategies	19.99	2020-03-20	Game House	1200
4	4	Healthy Living	11.99	2020-04-25	Health First	900
5	5	Music Theory	13.99	2020-05-30	Melody Makers	700
6	6	Cooking for Beginners	10.49	2020-06-10	Kitchen Kings	850
7	7	The Art of Mindfulness	12.99	2020-07-15	Peace Publishers	950
8	8	Tech Trends 2021	16.49	2020-08-20	Innovate Now	1100
9	9	Mastering Chess	18.00	2020-09-25	Board Mind	600
10	10	World History Explained	15.75	2020-10-30	Historical House	740
11	11	Modern Poetry	9.50	2020-11-20	VerseWorks	500
12	12	Fitness Fundamentals	13.25	2021-01-05	Health First	920
13	13	Digital Marketing Guide	17.99	2021-02-14	Market Media	1050
14	14	Science Fiction Tales	11.75	2021-03-18	SciFiWorld	880
15	15	Investing Basics	14.00	2021-04-22	Finance Forge	990

✓ Successfully run. Total query runtir

Total rows: 15   Query complete 00:00:00.241

11. BELONGS_TO_2 (Book to Category):

```
INSERT INTO BELONGS_TO_2 (Book_ID, Category_ID) VALUES
(1, 1),
(1, 3),
(2, 2),
(2, 6),
(3, 3),
(3, 7),
(4, 4),
```

```
(4, 10),
(5, 5),
(5, 12),
(6, 6),
(6, 4),
(7, 7),
(7, 1),
(8, 8),
(8, 2),
(9, 9),
(9, 13),
(10, 10),
(10, 5),
(11, 11),
(11, 14),
(12, 12),
(12, 4),
(13, 13),
(13, 7),
(14, 14),
(14, 8);
```

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No limit

Query   Query History

```
1    SELECT * From belongs_to_2
```

Data Output   Messages   Notifications

SQL

Showing row

	book_id [PK] integer	category_id [PK] integer
1	1	1
2	1	3
3	2	2
4	2	6
5	3	3
6	3	7
7	4	4
8	4	10
9	5	5
10	5	12
11	6	6
12	6	4
13	7	7
14	7	1
15	8	8
16	8	2
17	9	9
18	9	13
19	10	10

Total rows: 28   Query complete 00:00:00.249

12. AUTHOR Table:

```sql
INSERT INTO AUTHOR (Book_ID, Authors) VALUES
(1, 'John Smith'),
(2, 'Emily Davis'),
(3, 'Michael Brown'),
(4, 'Sarah Johnson'),
(5, 'David Wilson'),
(6, 'Laura Martinez'),
(7, 'James Anderson'),
(8, 'Linda Thompson'),
(9, 'Robert Garcia'),
(10, 'Patricia Martinez'),
(11, 'Charles Robinson'),
(12, 'Barbara Clark'),
(13, 'Thomas Rodriguez'),
(14, 'Jennifer Lewis'),
(15, 'Daniel Lee');
```

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No limit

Query   Query History

```
1    SELECT * From author
```

Data Output   Messages   Notifications

Showing

	book_id [PK] integer	authors [PK] character varying (100)
1	1	John Smith
2	2	Emily Davis
3	3	Michael Brown
4	4	Sarah Johnson
5	5	David Wilson
6	6	Laura Martinez
7	7	James Anderson
8	8	Linda Thompson
9	9	Robert Garcia
10	10	Patricia Martinez
11	11	Charles Robinson
12	12	Barbara Clark
13	13	Thomas Rodriguez
14	14	Jennifer Lewis
15	15	Daniel Lee

Su

13. PURCHASE Table:

```sql
INSERT INTO PURCHASE (Order_ID, Transaction_ID, Product_Type, Product_ID,
Purchase_ID, Purchase_Date, Amount, Payment_Method) VALUES
(1, 'TXN001', 'App', 1, 1001, '2023-01-15', 9.99, 'Credit Card'),
(2, 'TXN002', 'Book', 2, 1002, '2023-02-16', 14.99, 'PayPal'),
(3, 'TXN003', 'App', 3, 1003, '2023-03-21', 19.99, 'Credit Card'),
(4, 'TXN004', 'Book', 4, 1004, '2023-04-26', 11.99, 'Debit Card'),
(5, 'TXN005', 'App', 5, 1005, '2023-05-31', 13.99, 'Credit Card'),
(6, 'TXN006', 'Book', 6, 1006, '2023-06-06', 10.99, 'PayPal'),
(7, 'TXN007', 'App', 7, 1007, '2023-07-11', 12.99, 'Credit Card'),
(8, 'TXN008', 'Book', 8, 1008, '2023-08-16', 15.99, 'Debit Card'),
(9, 'TXN009', 'App', 9, 1009, '2023-09-21', 8.99, 'Credit Card'),
(10, 'TXN010', 'Book', 10, 1010, '2023-10-26', 9.99, 'PayPal'),
(11, 'TXN011', 'App', 11, 1011, '2023-11-30', 7.99, 'Credit Card'),
(12, 'TXN012', 'Book', 12, 1012, '2023-12-06', 6.99, 'Debit Card'),
(13, 'TXN013', 'App', 13, 1013, '2024-01-11', 5.99, 'Credit Card'),
(14, 'TXN014', 'Book', 14, 1014, '2024-02-16', 4.99, 'PayPal'),
(15, 'TXN015', 'App', 15, 1015, '2024-03-21', 3.99, 'Credit Card');
```

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No limit

Query | Query History | Scratch Pad ✕

```
1   SELECT * From PURCHASE
```

Data Output | Messages | Notifications

Showing rows: 1 to 15 | Page No: 1

	order_id [PK] integer	transaction_id character varying (50)	product_type character varying (20)	product_id integer	purchase_id integer	purchase_date date	amount numeric (10,2)	payment_method character varying (50)
1	1000	TXN001	App	1	1001	2023-01-15	9.99	Credit Card
2	1001	TXN002	Book	2	1002	2023-02-16	14.99	PayPal
3	1002	TXN003	App	3	1003	2023-03-21	19.99	Credit Card
4	1003	TXN004	Book	4	1004	2023-04-26	11.99	Debit Card
5	1004	TXN005	App	5	1005	2023-05-31	13.99	Credit Card
6	1005	TXN006	Book	6	1006	2023-06-06	10.99	PayPal
7	1006	TXN007	App	7	1007	2023-07-11	12.99	Credit Card
8	1007	TXN008	Book	8	1008	2023-08-16	15.99	Debit Card
9	1008	TXN009	App	9	1009	2023-09-21	8.99	Credit Card
10	1009	TXN010	Book	10	1010	2023-10-26	9.99	PayPal
11	1010	TXN011	App	11	1011	2023-11-30	7.99	Credit Card
12	1011	TXN012	Book	12	1012	2023-12-06	6.99	Debit Card
13	1012	TXN013	App	13	1013	2024-01-11	5.99	Credit Card
14	1013	TXN014	Book	14	1014	2024-02-16	4.99	PayPal
15	1014	TXN015	App	15	1015	2024-03-21	3.99	Credit Card

Total rows: 15   Query complete 00:00:00.277

14. BUY_APP Table:

```sql
INSERT INTO BUY_APP (User_ID, App_ID, Order_ID) VALUES
(1, 1, 1000),
(2, 3, 1002),
(3, 5, 1004),
(4, 7, 1006),
(5, 9, 1008),
(6, 11, 1010),
(7, 13, 1012),
(8, 15, 1014);
```

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No limit

Query   Query History   Scratch Pad

```
1    SELECT * From buy_app
```

Data Output   Messages   Notifications

Showing rows: 1 to 8   Page No:

user_id [PK] integer	app_id [PK] integer	order_id [PK] integer
1	1	1000
2	3	1002
3	5	1004
4	7	1006
5	9	1008
6	11	1010
7	13	1012
8	15	1014

✓ Successfully run. Total query runti

Total rows: 8   Query complete 00:00:00.435

15. BUY_BOOK Table:

```sql
INSERT INTO BUY_BOOK (User_ID, Book_ID, Order_ID) VALUES
(2, 2, 1001),
(4, 4, 1003),
(6, 6, 1005),
(8, 8, 1007),
(10, 10, 1009),
(12, 12, 1011),
(14, 14, 1013);
```

16. OFFERS Table:

```sql
INSERT INTO OFFERS (Offer_ID, Title, Description, Discount_Percentage,
Start_Date, End_Date, Offer_Type, Status) VALUES
(1, 'Summer Sale', '50% off on all apps!', 50.00, '2025-06-01',
'2025-06-30', 'App', 'Active'),
(2, 'Holiday Special', 'Buy 1 Get 1 Free', 100.00, '2025-12-01',
'2025-12-31', 'Book', 'Active'),
(3, 'Student Discount', '25% off for students', 25.00, '2025-04-01',
'2025-04-30', 'App', 'Inactive'),
(4, 'Flash Sale', '70% off on selected apps', 70.00, '2025-05-15',
'2025-05-20', 'App', 'Active'),
(5, 'Winter Discount', '10% off on all books', 10.00, '2025-12-01',
'2025-12-15', 'Book', 'Active'),
(6, 'Weekend Offer', 'Buy 2, Get 1 Free', 50.00, '2025-07-01',
'2025-07-05', 'App', 'Active'),
(7, 'Clearance Sale', '80% off on outdated apps', 80.00, '2025-08-01',
'2025-08-10', 'App', 'Inactive'),
```

```
(8, 'Black Friday', 'Up to 60% off on books', 60.00, '2025-11-27',
'2025-11-28', 'Book', 'Active'),
(9, 'Cyber Monday', '20% off on all purchases', 20.00, '2025-11-30',
'2025-12-01', 'Both', 'Active'),
(10, 'Easter Sale', 'Buy 1 Get 1 Free on Apps', 100.00, '2025-04-10',
'2025-04-12', 'App', 'Active');
```


offer_id [PK] integer	title character varying (100)	description text	discount_percentage numeric (5,2)	start_date date	end_date date	offer_type character varying (50)	status character varying (50)
1	Summer Sale	50% off on all apps!	50.00	2025-06-01	2025-06-30	App	Active
2	Holiday Special	Buy 1 Get 1 Free	100.00	2025-12-01	2025-12-31	Book	Active
3	Student Discount	25% off for students	25.00	2025-04-01	2025-04-30	App	Inactive
4	Flash Sale	70% off on selected ap...	70.00	2025-05-15	2025-05-20	App	Active
5	Winter Discount	10% off on all books	10.00	2025-12-01	2025-12-15	Book	Active
6	Weekend Offer	Buy 2, Get 1 Free	50.00	2025-07-01	2025-07-05	App	Active
7	Clearance Sale	80% off on outdated ap...	80.00	2025-08-01	2025-08-10	App	Inactive
8	Black Friday	Up to 60% off on books	60.00	2025-11-27	2025-11-28	Book	Active
9	Cyber Monday	20% off on all purchases	20.00	2025-11-30	2025-12-01	Both	Active
10	Easter Sale	Buy 1 Get 1 Free on Apps	100.00	2025-04-10	2025-04-12	App	Active

17. OFFERED_TO_1 (Apps):

```
INSERT INTO OFFERED_TO_1 (App_ID, Offer_ID) VALUES
(1, 3),
(2, 7),
(6, 4),
(7, 9),
(8, 1),
(9, 6),
(10, 10);
```

app_id [PK] integer	offer_id [PK] integer
1	3
2	7
6	4
7	9
8	1
9	6
10	10

Total rows: 7   Query complete 00:00:00.339

Overlapping offers for the same app are not allowed:

```
INSERT INTO OFFERED_TO_1 (App_ID, Offer_ID) VALUES
(1, 1),
(1, 3),
(2, 2),
(2, 5),
(3, 3),
(3, 6),
```

Data Output   Messages   Notifications

```
ERROR:  Overlapping offers for the same app are not allowed
CONTEXT:  PL/pgSQL function prevent_overlapping_offers() line 10 at RAISE

SQL state: P0001
```

18. OFFERED_TO_2 (Books):

```sql
INSERT INTO OFFERED_TO_2 (Book_ID, Offer_ID) VALUES
(1, 9),
(4, 2),
(8, 8),
(10, 5);
```

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Query   Query History

```sql
1   SELECT * FROM offered_to_2
```

Data Output   Messages   Notifications

book_id [PK] integer	offer_id [PK] integer
1	9
4	2
8	8
10	5

Total rows: 4   Query complete 00:00:00.269

19. APPLICABLE_PRODUCTS TABLE:

```sql
INSERT INTO APPLICABLE_PRODUCTS (Offer_ID, Applicable_Products) VALUES
(1, 'Apps'),
(2, 'Books'),
(3, 'Apps'),
(4, 'Apps'),
(5, 'Books'),
(6, 'Apps'),
(7, 'Apps'),
```

```
(8, 'Books'),
(9, 'Both'),
(10, 'Apps');
```


20. ELIGIBILITY TABLE:

```
INSERT INTO ELIGIBILITY (Offer_ID, Eligibility) VALUES
(1, 'All Users'),
(2, 'Students Only'),
(3, 'University Students'),
(4, 'Premium Users'),
(5, 'New Users'),
(6, 'VIP Users'),
(7, 'All Users'),
(8, 'Book Lovers'),
(9, 'All Users'),
(10, 'First-Time Buyers'),
(3, 'Students Only'),
```

```
(5, 'VIP Users'),
(10, 'Book Lovers');
```


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No limit

Query Query History

1 SELECT * FROM ELIGIBILITY

Data Output Messages Notifications

	offer_id [PK] integer	eligibility [PK] character varying (100)
1	1	All Users
2	2	Students Only
3	3	University Students
4	4	Premium Users
5	5	New Users
6	6	VIP Users
7	7	All Users
8	8	Book Lovers
9	9	All Users
10	10	First-Time Buyers
11	3	Students Only
12	5	VIP Users
13	10	Book Lovers

Total rows: 13 Query complete 00:00:00.251

21. REVIEWS TABLE:

```
INSERT INTO REVIEWS (Review_ID, Rating, Review, Date_and_Time, User_ID,
App_ID, Book_ID) VALUES
(1, 5, 'Great app, highly recommend!', '2025-04-10 14:30:00', 1, 1, NULL),
(2, 4, 'Good, but needs some improvements.', '2025-04-10 15:00:00', 2, 2,
NULL),
(3, 3, 'It is okay, not the best.', '2025-04-10 16:30:00', 3, 3, NULL),
(4, 2, 'Not great, crashes often.', '2025-04-10 17:00:00', 4, 4, NULL),
(5, 1, 'Horrible app, do not download.', '2025-04-10 17:30:00', 5, 5,
NULL),
```

```
(6, 5, 'This book is a masterpiece!', '2025-04-10 18:00:00', 6, NULL, 1),
(7, 4, 'Very interesting read.', '2025-04-10 18:30:00', 7, NULL, 2),
(8, 3, 'It is a bit slow, but engaging.', '2025-04-10 19:00:00', 8, NULL,
3),
(9, 5, 'A thrilling story from start to finish.', '2025-04-10 19:30:00',
9, NULL, 4),
(10, 4, 'Great plot but the ending was predictable.', '2025-04-10
20:00:00', 10, NULL, 5),
(11, 2, 'Not much to say, it was average.', '2025-04-10 20:30:00', 11,
NULL, 6),
(12, 1, 'I did not enjoy this book at all.', '2025-04-10 21:00:00', 12,
NULL, 7),
(13, 5, 'Highly recommend this app!', '2025-04-10 21:30:00', 13, 6, NULL),
(14, 4, 'Quite useful, but needs some updates.', '2025-04-10 22:00:00',
14, 7, NULL),
(15, 3, 'A decent app, but nothing special.', '2025-04-10 22:30:00', 15,
8, NULL);
```

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No limit

Query   Query History   Scratch P

```
1    SELECT * FROM REVIEWS
```

Data Output   Messages   Notifications

Showing rows: 1 to 15   Page No:

	review_id [PK] integer	rating integer	review text	date_and_time timestamp without time zone	user_id integer	app_id integer	book_id integer
1	1	5	Great app, highly recommend!	2025-04-10 14:30:00	1	1	[null]
2	2	4	Good, but needs some improvements.	2025-04-10 15:00:00	2	2	[null]
3	3	3	It is okay, not the best.	2025-04-10 16:30:00	3	3	[null]
4	4	2	Not great, crashes often.	2025-04-10 17:00:00	4	4	[null]
5	5	1	Horrible app, do not download.	2025-04-10 17:30:00	5	5	[null]
6	6	5	This book is a masterpiece!	2025-04-10 18:00:00	6	[null]	1
7	7	4	Very interesting read.	2025-04-10 18:30:00	7	[null]	2
8	8	3	It is a bit slow, but engaging.	2025-04-10 19:00:00	8	[null]	3
9	9	5	A thrilling story from start to finish.	2025-04-10 19:30:00	9	[null]	4
10	10	4	Great plot but the ending was predictable.	2025-04-10 20:00:00	10	[null]	5
11	11	2	Not much to say, it was average.	2025-04-10 20:30:00	11	[null]	6
12	12	1	I did not enjoy this book at all.	2025-04-10 21:00:00	12	[null]	7
13	13	5	Highly recommend this app!	2025-04-10 21:30:00	13	6	[null]
14	14	4	Quite useful, but needs some updates.	2025-04-10 22:00:00	14	7	[null]
15	15	3	A decent app, but nothing special.	2025-04-10 22:30:00	15	8	[null]

Total rows: 15   Query complete 00:00:00.305

If Rating is greater than 5 or less than 1:

```sql
INSERT INTO REVIEWS (Review_ID, Rating, Review, Date_and_Time, User_ID,
App_ID, Book_ID) VALUES
(16, 6, 'This app is beyond amazing!', '2025-04-13 10:00:00', 1, 1, NULL),
(17, -1, 'Absolutely loved every chapter!', '2025-04-13 10:15:00', 2,
NULL, 2),
(18, 8, 'Should be in the Hall of Fame!', '2025-04-13 10:30:00', 3, 3,
NULL);
```

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No limit

Query   Query History

```sql
1   INSERT INTO REVIEWS (Review_ID, Rating, Review, Date_and_Time, User_ID, App_ID, Book_ID) VALUES
2    (16, 6, 'This app is beyond amazing!', '2025-04-13 10:00:00', 1, 1, NULL),
3    (17, -1, 'Absolutely loved every chapter!', '2025-04-13 10:15:00', 2, NULL, 2),
4    (18, 8, 'Should be in the Hall of Fame!', '2025-04-13 10:30:00', 3, 3, NULL);
```

Data Output   Messages   Notifications

ERROR: Rating must be between 1 and 5
CONTEXT: PL/pgSQL function validate_rating() line 4 at RAISE

SQL state: P0001