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SELECT

id,

(SELECT name FROM users WHERE users.id=private\_videos\_orders.customer\_id) AS  
customer\_name,

(SELECT name FROM users WHERE users.id=private\_videos\_orders.owner\_id) AS  
owner\_name,

(SELECT

(SELECT name FROM payment\_systems WHERE  
payment\_systems.id=payments.payment\_system\_id)

FROM payments WHERE payments.order\_id=private\_videos\_orders.id) AS  
payment\_system,

order\_date

FROM private\_videos\_orders

ORDER BY order\_date DESC LIMIT 20;

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SELECT order\_id,

payment\_systems.name AS payment\_system,

payment\_statuses.name AS status,

private\_video\_id,

size

FROM payments

JOIN private\_videos\_orders

ON payments.order\_id = private\_videos\_orders.id

JOIN payment\_statuses

ON payment\_statuses.id = payments.status

JOIN payment\_systems

ON payment\_systems.id = payments.payment\_system\_id

LEFT JOIN videos

ON videos.id = private\_videos\_orders.private\_video\_id

ORDER BY size DESC

LIMIT 10;

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SELECT order\_id,

status,

price,

private\_video\_id

FROM payments

JOIN private\_videos\_orders

ON order\_id = private\_videos\_orders.id

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SELECT videos.id,

title,

category\_public AS category,

name

FROM videos

JOIN users

ON author\_id = users.id

JOIN categories

on category = categories.id

LIMIT 10;

7\_\_\_\_\_

CREATE OR REPLACE VIEW video\_view AS

SELECT videos.id, videos.size, users.name

```
FROM videos

LEFT JOIN users

ON videos.author_id = users.id

WHERE videos.size > 23;

SELECT * FROM video_view LIMIT 5;
```

—

```
CREATE OR REPLACE VIEW video_orders AS

SELECT private_videos_orders.id, private_videos_orders.order_date, payments.status,
payments.price

FROM private_videos_orders

LEFT JOIN payments

ON private_videos_orders.id = payments.order_id

WHERE private_videos_orders.order_date > (current_timestamp - interval '3 month');

SELECT * FROM video_orders;
```

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```
CREATE FUNCTION video_customers(user_id INTEGER)

RETURNS INTEGER AS

$$

SELECT customer_id

FROM private_videos_orders

WHERE owner_id = user_id

GROUP BY customer_id

ORDER BY count(*) DESC

LIMIT 5;

$$

LANGUAGE sql;
```

```
SELECT video_customers(55);
```

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```
CREATE OR REPLACE FUNCTION video_cheak_before_delete_trigger()
```

```
RETURNS TRIGGER AS
```

```
$$
```

```
BEGIN
```

```
    IF OLD.category = 1 THEN
```

```
        RAISE EXCEPTION 'Active orders are found. Video can not be removed.';
```

```
    END IF;
```

```
    RETURN NEW;
```

```
END;
```

```
$$
```

```
LANGUAGE plpgsql;
```

```
DROP TRIGGER IF EXISTS video_cheak_before_delete ON videos;
```

```
CREATE TRIGGER video_cheak_before_delete
```

```
BEFORE DELETE ON videos
```

```
FOR EACH ROW
```

```
EXECUTE FUNCTION video_cheak_before_delete_trigger();
```

```
SELECT * FROM videos
```

```
DELETE FROM videos
```

```
WHERE id = 99;
```

```
ERROR: Active orders are found. Video can not be removed.
```

```
EXPLAIN ANALYZE SELECT order_id,  
  
status,  
  
price,  
  
private_video_id  
  
FROM payments  
  
JOIN private_videos_orders  
  
ON order_id = private_videos_orders.id  
  
WHERE status = 3
```

Query Query History

```
1 EXPLAIN ANALYZE SELECT order_id,  
2 status,  
3 price,  
4 private_video_id  
5 FROM payments  
6 JOIN private_videos_orders  
7 ON order_id = private_videos_orders.id  
8 WHERE status = 3
```

Data output Messages Notifications

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	QUERY PLAN	
	text	🔒
1	Hash Join (cost=2.59..5.61 rows=27 width=16) (actual time=0.031..0.048 rows=27 loops=1)	
2	Hash Cond: (private_videos_orders.id = payments.order_id)	
3	-> Seq Scan on private_videos_orders (cost=0.00..2.00 rows=100 width=8) (actual time=0.005..0.010 rows=100 loops=1)	
4	-> Hash (cost=2.25..2.25 rows=27 width=12) (actual time=0.021..0.021 rows=27 loops=1)	
5	Buckets: 1024 Batches: 1 Memory Usage: 10kB	
6	-> Seq Scan on payments (cost=0.00..2.25 rows=27 width=12) (actual time=0.005..0.014 rows=27 loops=1)	
7	Filter: (status = 3)	
8	Rows Removed by Filter: 73	
9	Planning Time: 0.140 ms	
10	Execution Time: 0.067 ms	

## Индекс

```
CREATE INDEX payments_status_fk ON payments (status);  
  
CREATE INDEX payments_order_id_fk ON payments (order_id);
```

