

PostgreSQL Assignment 25-7-23

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Q) Write joins for DVD database, including minimum of 4 tables.

Code:

```
SELECT
    c.customer_id,
    c.first_name customer_first_name,
    c.last_name customer_last_name,
    s.first_name staff_first_name,
    s.last_name staff_last_name,
    r.rental_date rental_date,
    amount,
    payment_date
FROM
    customer c
INNER JOIN payment p
    ON p.customer_id = c.customer_id
INNER JOIN staff s
    ON p.staff_id = s.staff_id
INNER JOIN rental r
    ON p.rental_id = r.rental_id
ORDER BY payment_date;
```

Output:

	customer_id integer	customer_first_name character varying (45)	customer_last_name character varying (45)	staff_first_name character varying (45)	staff_last_name character varying (45)	rental_date timestamp without time zone	amount numeric
1	416	Jeffery	Pinson	Jon	Stephens	2005-06-14 22:53:33	
2	516	Elmer	Noe	Jon	Stephens	2005-06-14 22:55:13	
3	239	Minnie	Romero	Mike	Hillyer	2005-06-14 23:00:34	
4	592	Terrance	Roush	Jon	Stephens	2005-06-14 23:12:46	
5	49	Joyce	Edwards	Mike	Hillyer	2005-06-14 23:16:26	
6	264	Gwendolyn	May	Jon	Stephens	2005-06-14 23:16:27	
7	46	Catherine	Campbell	Mike	Hillyer	2005-06-14 23:17:03	
8	481	Herman	Devore	Jon	Stephens	2005-06-14 23:35:09	
9	139	Amber	Dixon	Jon	Stephens	2005-06-14 23:42:56	
10	595	Terrence	Gunderson	Jon	Stephens	2005-06-14 23:47:35	
11	191	Jeanette	Greene	Jon	Stephens	2005-06-14 23:54:46	
12	95	Paula	Bryant	Jon	Stephens	2005-06-15 00:12:51	
13	197	Sue	Peters	Jon	Stephens	2005-06-15 00:15:15	
14	512	Cecil	Vines	Mike	Hillyer	2005-06-15 00:28:37	
15	210	Ella	Oliver	Jon	Stephens	2005-06-15 00:33:04	
16	448	Shirley	Marshall	Mike	Hillyer	2005-06-15 00:36:58	

Q) Write a view for that join

Code:

```
CREATE OR REPLACE VIEW customer_payment_view AS
```

```
SELECT
```

```
    c.customer_id,
    c.first_name AS customer_first_name,
    c.last_name AS customer_last_name,
    s.first_name AS staff_first_name,
    s.last_name AS staff_last_name,
    r.rental_date,
    p.amount,
    p.payment_date
```

```
FROM
```

```
    customer c
```

```
INNER JOIN payment p
```

```
    ON p.customer_id = c.customer_id
```

```
INNER JOIN staff s
```

```
    ON p.staff_id = s.staff_id
```

INNER JOIN rental r

ON p.rental_id = r.rental_id

ORDER BY p.payment_date;

SELECT * FROM customer_payment_view;

	customer_id integer	customer_first_name character varying (45)	customer_last_name character varying (45)	staff_first_name character varying (45)	staff_last_name character varying (45)	rental_date timestamp without time zone	amount numeric
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14	512	Cecil	Vines	Mike	Hillyer	2005-06-15 00:28:37	
15	210	Ella	Oliver	Jon	Stephens	2005-06-15 00:33:04	
16	110	Shirley	McDonald	Mike	Hillyer	2005-06-15 00:36:50	