

Assignment

Task 1

```
SELECT DISTINCT customer."customer_id", customer."store_id",
customer."first_name", customer."last_name", customer."email",
customer."address_id", customer."activebool", customer."create_date",
customer."last_update", customer."active"
FROM "customer" JOIN "rental" ON rental."customer_id" = customer."customer_id"
JOIN "inventory" ON inventory."inventory_id" = rental."inventory_id"
JOIN "film" ON film."film_id" = inventory."film_id" WHERE "replacement_cost" = 14
```

Data Output										Explain	Messages	Notifications							
	customer_id [PK] integer		store_id smallint		first_name character varying (45)		last_name character varying (45)		email character varying (50)		address_id smallint		activebool boolean		create_date date		last_update timestamp without time zone		active integer

Task 2

```
SELECT customer."customer_id", customer."store_id",
customer."first_name", customer."last_name", customer."email",
customer."address_id", customer."activebool", customer."create_date",
customer."last_update", customer."active", payment_join.total
FROM "customer" JOIN (SELECT customer_id, SUM(amount) as total
FROM "payment" GROUP BY "customer_id") payment_join
ON payment_join.customer_id = customer.customer_id
JOIN "rental" ON rental."customer_id" = customer."customer_id"
JOIN "payment" ON payment."rental_id" = rental."rental_id"
JOIN "inventory" ON inventory."inventory_id" = rental."inventory_id" JOIN "film"
ON film."film_id" = inventory."film_id"
WHERE "replacement_cost" = 14 OR (payment.amount > 2.99 AND total < 5)
```

Data Output

Explain

Messages

Notifications

customer_id	store_id	first_name	last_name	email	address_id	activebool	create_date	last_update	active	total
[PK] integer	smallint	character varying (45)	character varying (45)	character varying (50)	smallint	boolean	date	timestamp without time zone	integer	numeric

Task 3

Data Output	Explain	Messages	Notifications
customer_id [PK] integer	first_name character varying (45)	last_name character varying (45)	total numeric
1	137 Rhonda	Kennedy	191.62
2	144 Clara	Shaw	189.60
3	148 Eleanor	Hunt	211.55
4	178 Marion	Snyder	194.61
5	181 Ana	Bradley	167.67
6	236 Marcia	Dean	166.61
7	403 Mike	Way	162.67
8	410 Curtis	Irby	167.62
9	459 Tommy	Collazo	183.63
10	526 Karl	Seal	208.58

Task 4

```
SELECT COUNT(CASE WHEN "rental_date" < "return_date" THEN 1 END)
as LATE, COUNT(CASE WHEN "rental_date" = "return_date" THEN 1 END)
as ON_TIME, COUNT(CASE WHEN "return_date" is null THEN 1 END)
as HAVE_NOT_BEEN_RETURNED FROM "rental"
```

Data Output	Explain	Messages	Notifications
late bigint	on_time bigint	have_not_been_returned bigint	
1	15861	0	183

