Relational Algebra of the first 5 Queries for ACR Database.

1) Π {cust_code, cust_surname, city, street, street_number, postal_code, phone_number} (Customer).

2) Π {rental_code, rental_date, return_date σ {Rental.rental_value > 200 $\wedge$ Rented_from.rental_code = Rental.rental_code $\wedge$ Return_to.rental_code = Rental.rental.code }} (Rental $\times$ Customer $\times$ Return_to $\times$ Rented_from).

3) Π {cust_code, cust_name, cust_surname, phone_number, rental_code σ {Customer.cust_code = Rents.cust_code $\wedge$ Rental.rental_code = Rents.rental_code }} (Customer X Rents X Rental).

4) δ {rental_value $\leftarrow$ rental_value * 0.95 } (Rental)

5) Π {cust_name, cust_surname, phone_number σ {Region.code = 10025 $\wedge$ Region.code = Lices_in.code $\wedge$ Customer.cust_code = Lives_in.cust_code $\wedge$ Rental.rental_code = Rented_from.rental_code $\wedge$ Rental.rental_code = Return_to.rental_code $\wedge$ Rented_from.rental_date < '20100923 00:00:00 AM' $\wedge$ Return_to.return_date > '20100923 00:00:00 AM'}} (Customer X Region X Rented_from X Return_to X Rental X Lives_in X Rents)