4) Select all the courier whose cost is greater than Rs 100 and less than Rs 500 & mode of payment is online.

Relational Algebra:

$$\begin{split} &\Pi_{<.c_id,p.p_amount,p.p_mode>}(p,&(\sigma_{< p.p_amount>100~AND~p.p_amount<500}\\ &\text{p.p_mode="online">payment)}\bowtie_{< c.p_id=p.p_id>}(c,courier)) \end{split}$$

SQL Code:

SELECT C_ID, P.P_AMOUNT, P.P_Mode FROM COURIER AS C JOIN PAYMENT AS P ON(C.P_ID=P.P_ID) WHERE P.P_AMOUNT<'500' AND P.P_AMOUNT >'100' AND P.P_MODE='ONLINE';

Output:

