

4.2.3 Advanced Relational Algebra

Question 3:

$$\text{Part_A} = \pi_{\text{PROD_NO}}(\text{PRODUCT}) \bowtie \pi_{\text{PROD_NO}}(\text{SALES})$$

$$\text{Part_B} = \pi_{\text{PROD_DESC}}(\text{Part_A} - \pi_{\text{PROD_NO}}(\text{SALES}))$$

Question 4:

$$\text{Part_A} = (\text{SALE.SOLD_BY} = \text{STAFF.STAFF_NAME})$$

$$\text{Part_B} = \pi_{\text{STAFF_NAME}}(\text{STAFF})$$

$$\text{FINAL} = \pi_{\text{STAFF_NAME}}(\text{PART_B} - \text{PART_A})$$

Question 5:

$$\text{Part_A} = \text{SALE.SOLD_BY} = \text{STAFF.STAFF_NAME}$$

$$\pi_{\text{STAFF_POSITION}}(\text{Part_A} \bowtie \text{STAFF})$$