

2.1. 以带下划线的码作为主码较好

employee (person-name, street, city)

works (person-name, company-name, salary)

company (company-name, city)

2.7 a.  $\Pi_{name} (\sigma_{city = "Miami"} (employee))$

b.  $\Pi_{name} (\sigma_{salary > 100,000} (employee))$

c.  $\Pi_{name} (\sigma_{city = "Miami" \wedge salary > 100,000} (employee))$

2.8 a.  $\Pi_{branch\_name} (\sigma_{branch\_city = "chicago"} (branch))$

b.  $\Pi_{customer\_name} (\sigma_{branch\_name = "Downtown"} (borrower \bowtie loan))$

6.11. a.  $\Pi_{person\_name} (\sigma_{company\_name = "First Bank Corporation"} (works))$

b.  $\Pi_{person\_name, city} (employee \bowtie (\sigma_{company\_name = "First Bank Corporation"} (works)))$

c.  $\Pi_{person\_name, street, city} (\sigma_{company\_name = "First Bank Corporation" \wedge salary > 10000} (works) \bowtie employee)$

d.  $\Pi_{person\_name} (employee \bowtie works \bowtie company)$

e.  $\Pi_{company\_name} (company \div (\Pi_{city} (\sigma_{company\_name = "Small Bank Corporation"} (company))))$

1851804 蒯成林