

一	答案	1---5、CBDCA 6---10、CBCAA																														
二	答案	1) View Level 2) 3 3) (100,98) 4) Revoke 5) Transaction																														
三	答案	<p>1) Answer Only values occurring in the primary key attribute of the referenced relation may occur in the foreign key attribute of the referencing relation</p> <p>2) Answer A candidate key is a set of attributes in a table that satisfies: (1) No two distinct records have the same values for it. (2) There is not a proper subset of a candidate key that satisfies (1). A superkey is a set of attributes where no two distinct records have the same values for it.</p> <p>3) Answer Should be divided. Loan_numbe→amount, and loan_number is not superkey in the combined relation.</p> <p>4) Answer ACID Stands for atomicity, consistency, isolation, durability. Atomicity: Either all operations of the transaction are properly reflected in the database or none are. Consistency: Execution of a transaction in isolation preserves the consistency of the database. Isolation: Although multiple transactions may execute concurrently, each transaction must be unaware of other concurrently executing transactions. Durability: After a transaction completes successfully, the changes it has made to the database persist, even if there are system failures.</p>																														
四	答案	<p>1) Answer:</p> <table border="1"> <thead> <tr> <th>B</th><th>C</th><th>200</th></tr> </thead> <tbody> <tr> <td>6</td><td>7</td><td>200</td></tr> <tr> <td>2</td><td>3</td><td>200</td></tr> <tr> <td>4</td><td>5</td><td>200</td></tr> <tr> <td>7</td><td>9</td><td>200</td></tr> </tbody> </table> <p>2) Answer:</p> <table border="1"> <thead> <tr> <th>A</th><th>B</th><th>C</th></tr> </thead> <tbody> <tr> <td>a1</td><td>6</td><td>7</td></tr> <tr> <td>a4</td><td>4</td><td>5</td></tr> <tr> <td>a2</td><td>6</td><td>7</td></tr> <tr> <td>a3</td><td>7</td><td>9</td></tr> </tbody> </table>	B	C	200	6	7	200	2	3	200	4	5	200	7	9	200	A	B	C	a1	6	7	a4	4	5	a2	6	7	a3	7	9
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五	答案	<div>1) Answer</div> <div>Create table Class(     cname char(30),     meets at char(30),     room char(30),     fid char(30),     primary key(cname),     foreign key(fid) references faculty)</div> <div>2) Answer</div> <div>Insert into students Values('111','Kobe Bryant','CS','senior',22); Insert into Enrolled Values('111','CS411')</div> <div>3) Answer</div> <div>Delete from class Where class.fid in (select fid from faculty where fname='Joe Smith')</div> <div>4) Answer</div> <div>Create view busyfaculty as (select fid, fname From faculty natural join class Group by fid, fname Having count(cname)&gt;3)</div> <div>5) Answer</div> <div>(select class.snum from student natural join class natural join enrolled where room='R128') union (select snum form students natural join enrolled where cname in (select cname from class natual join entrolled group by cname having</div>																									

		count(snum)>=5)
六	答案	<p>a) Answer:</p> <p>b) Answer:</p> <p>Member (<u>MID</u>, Name, Birthdate )</p> <p>Fee(Date, Description, <u>PID</u>, MID)</p> <p>Board (<u>MID</u>)</p> <p>Organizer(<u>MID</u>, CellPhone)</p> <p>Tour(<u>TID</u>,Name)</p> <p>Travel(<u>TravelID</u>, TID, MID, Cost, Startdate, Enddate</p> <p>FeeforTravel(PID, TravelID)</p> <p>Orgnize(MID,TID)</p> <p>Participate(MID, TravelID)</p>
七	答案	<p>a) Answer:</p> <p>Candidate key: AB, BD</p> <p>b) D in <math>AB \rightarrow CD</math>.</p> <p>c) Not in 3NF. <math>F_c = \{AB \rightarrow C, A \rightarrow D, D \rightarrow AE, E \rightarrow F\}</math>.</p> <p>R can be decomposed into <math>\{A,B,C\}, \{A,D,E\}, \{E,F\}</math></p>