

Contents	
 Views Foreign Keys Transactions Inheritance 	
	2

1.	Views	
	Create a view over the query, which gives a name to the query that you can refer to like an ordinary table: CREATE VIEW myview AS SELECT city, temp_lo, temp_hi, prcp, date, location FROM weather, cities WHERE city = name;	n
	SELECT * FROM myview;	
	Views allow you to encapsulate the details of the structure of your tables, which might change as your application evolves, behind consistent interfaces.	
-		3

Recall the weather and chapter. Consider the for make sure that no one table that do not have a table. This is called mai of your data.	cities tables from previous ollowing problem: You want to can insert rows in the weather a matching entry in the cities ntaining the <i>referential integrity</i>
CREATE TABLE cities (city varchar(80) primary key, location point);	CREATE TABLE weather (city varchar(80) references cities(city), temp_lo int, temp_hi int, prcp real, date date);

A transaction comprises a unit of work performed within a DBMS (or similar system) against a database, and treated in a coherent and reliable way independent of other transactions.
It bundles multiple steps into a single, all-or- nothing operation
The intermediate states between the steps are not visible to other concurrent transactions
If some failure occurs that prevents the transaction from completing, then none of the steps affect the database at all.





Isolation	
 Define how/w operation beconcurrent op 	hen the changes made by one one invisible to other erations
Durability	
 Guarantees th committed wil 	at transactions that have I survive permanently.
 For example, a seat has suc the seat will re system crashe 	if a flight booking reports that ccessfully been booked, then emain booked even if the es.









4. Inheritance
Inheritance is a concept from object- oriented databases. It opens up interesting new possibilities of database design.
CREATE TABLE cities(
name text,
population real,
altitude int);
CREATE TABLE capitals(
state char(2)
) INHERITS (cities);
15

In this case, a row of capitals inherits
all columns (name, population, and
altitude) from its parent, cities.
Insert into cities values('Las
Insert into capitals values('Madison',5.6,845, 'CA');
SELECT *
FROM cities
WHERE altitude > 500;

