Chapter-7 Solution
Database Concepts

1. Give the terms for each of the following:
   a. Collection of logically related records.
      Ans: Database
   b. DBMS creates a file that contains description about the data stored in the database.
      Ans: Meta-data or Data Dictionary
   c. Attribute that can uniquely identify tuples in a relation.
      Ans: Primary Key
   d. Special value that is stored when actual data value is unknown for an attribute.
      Ans: NULL
   e. An attribute which can uniquely identify tuples of the table but is not defined as primary key of the table.
      Ans: UNIQUE Key
   f. Software that is used to create, manipulate and maintain a relational database.
      Ans: RDBMS

2. Why foreign keys are allowed to have NULL values? Explain with an example.
   Ans: Foreign Key is used to represent the relation between two tables. Because in the field with Foreign key attribute data comes from Primary key field in another related table and so Foreign key are allowed to have Null Values if it not the part of Primary key field of the related table. For example-

Ccode(PK)	Cname	Caddress
1	Sanjay	Delhi
2	Raman	Mumbai
3	Farooq	Kolkata

Ono	Ccode(FK)	Amt
1	1	250
2	3	400
3	NULL	300

   Here both the table 'Customer' and 'Order' are related with each other with a common field 'CCode' which is Primary key in Customer table and Foreign key in Order table. So we cannot insert a new CCode in Order table if it does not exist in Customer table but we can have null values instead.

3. Differentiate between:
   a. Database state and database schema.
      Ans: Difference between Database state and database schema is given below:

Database Schema	Database State
Database Schema represent overall design of the database.	Database state represent current state of data in database.
Database schema is changed ocassionally	Database state is changed frequently

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