Syed Huzoita Ali 23K-0004 Database Systems Dates Assignment # 01 Q1 a). File system has concurrent excess issues, which means that multiple users cannot across the data at the same time. Data stored is redundant as two or more tiles on save the same data. tiles systems provide no of socurity which may lead to leaking of data. b). A composite key is a primary key that consists of two or columns used together to uniquely identify a record for e-g. considering a library system, member ID alone Es not unique as a member con borrow multiple books Book\_ID alone is not unique as the same book can be bossowed by different members. However, member ID and Book\_ID can uniquely identify each row. c). Application programs when using DBMS pean pertorm various operations: DDL (creating, aftering tables), DML (insext, update, delete), Data control and Security and Transaction management. . Logical data independence is more difficult to achieve than physical data independence in three-schema architectuse because small changes in data, like adding a constraint requires an update guery which might change the data structure as duplicates may already be stored.

Date:
e). A superkey is a set of attributes which uniquely identifies a tuple in a relation, while a key contains no redundant
attributes. E.g.
Table: Employee (ID, name, email) Superkey: [ID, email]
key: [ID]

