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Database Assignment 1

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QUESTION #1

(a) file systems for data management face issues like weak security controls challenges in seeding of as data volumes increase rists of inconsistent data arous files, and pour integrity entercement. Redundancy is also common, where he some information gets stored in multiple places, raising the chance of errors during a dates.

b. A composite primary key combines multiple absolutes to form a unique identifier for records in a table when one absolute isn't enough, for instance, in a table tracting class registration, you might use both learner Number and Classcode as the composite key. Individually these could repeat (ey. one learner in many classes or one class with many learner) but together they quarantee no duplicates.

dotobose structures (like todas and fields intervel) adding new entries (via inserts).

fetching intermedium (Arrough queries), aftering or removing existing entries (updates and duetes), managing uses permissions for quess, and maintaining date accuracy and consisting overall

In the three scheme model, achieving logical data independence is tougher because a external views and programs are closely linked to the core concepted layer. From minor adjustments there can disrupt higher level elements. Take a scenario where a unitied "Rejutivation" table exists in the conceptual scheme, showing studenty detail alongsick conscients and grades of its later divided into separate "studentiato" and "come Details" tables too better organization, user interfaces or reports brist on the original view might break, as they expect the old combined structure without automatic adapter adaptation.

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e	This means a key quotikes as a superkey line it uniquery pins down rows), but
(65.	sperkey, are not always key, because they might include extra, non essented pots.
	consider a relation Ar people with attitutes like Person 10, Formane, Contratemail
	and Phone Nom & Person 103 could be a key-14 the smallest set for uniqueness . But
	{ Pennin, Furinance, Contact Finail] is a superkey; it works for identification but
	that minimal, or dropping the extra till leaves unquenes, intent.
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11.39	<u> Andrews and garage was a long of the search of the first and the first</u>
	Fig. 1. The state of the state