

DBMS ASSIGNMENT

UNIT 3: -

- 1) Find the relational algebra for the following:
→ For a relation employee (E_id, E_name, city) find the name of employee who either leave delhi or either Mumbai?
- 2) How a Trigger is different from procedure?
- 3) Suppose that we decompose the schema $R \rightarrow (A, B, C, D, E)$ into R_1 and R_2 as $R_1: \{A, B, C\}$, $R_2: \{C, D, E\}$ justify whether it is lossless decomposition or not?

UNIT 4: -

- 1) Consider a relation $R (A, B, C, D, E)$ with following FD's $A \rightarrow BC$, $CD \rightarrow E$, $B \rightarrow D$, $E \rightarrow A$. does $B \rightarrow CD$ excess over the relation R ?
- 2) Suppose a relational schema are (P, Q, R, S) and set of FD' s as Following:
 $F: \{P \rightarrow QR, Q \rightarrow R, P \rightarrow Q, PQ \rightarrow R\}$ find the canonical cover?

UNIT 5: -

- 1) What do you mean by concurrency control?
- 2) What is Time stamp? Discuss Basic Time stamp & Strict Time stamp Protocol as Concurrency control mechanism?
- 3) How Serial Schedule is different from non-serial schedule & what is serializable schedule?