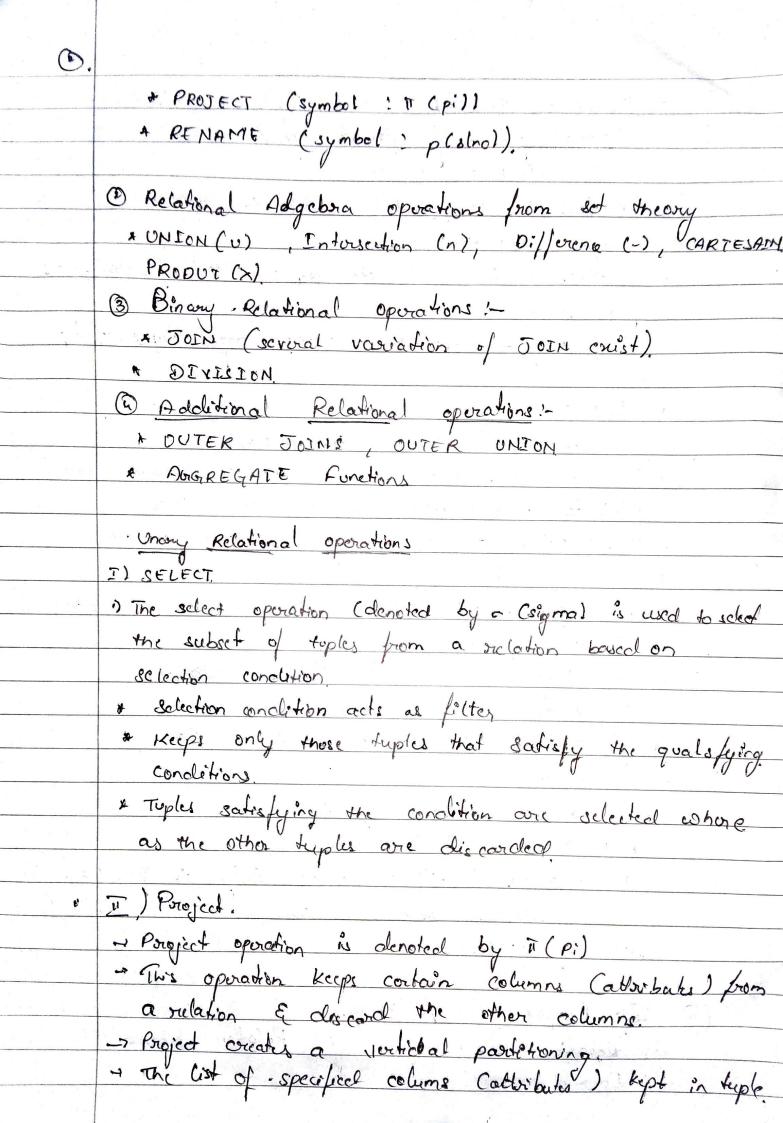
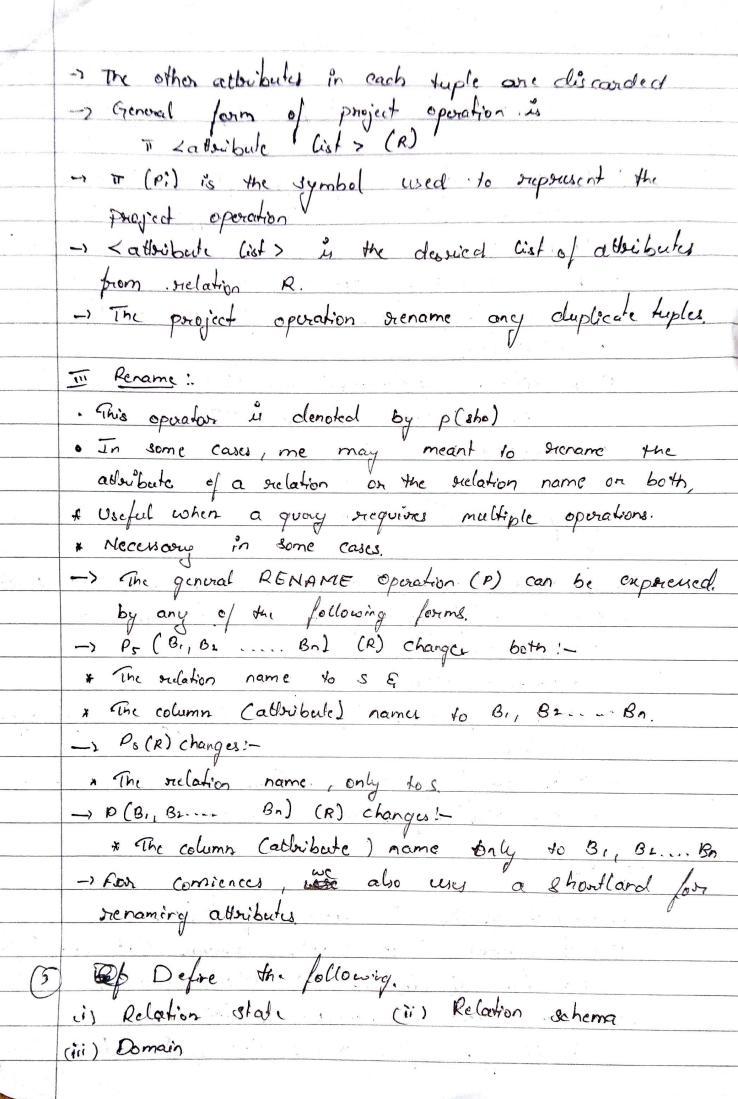
DBMS -2 Assignment.

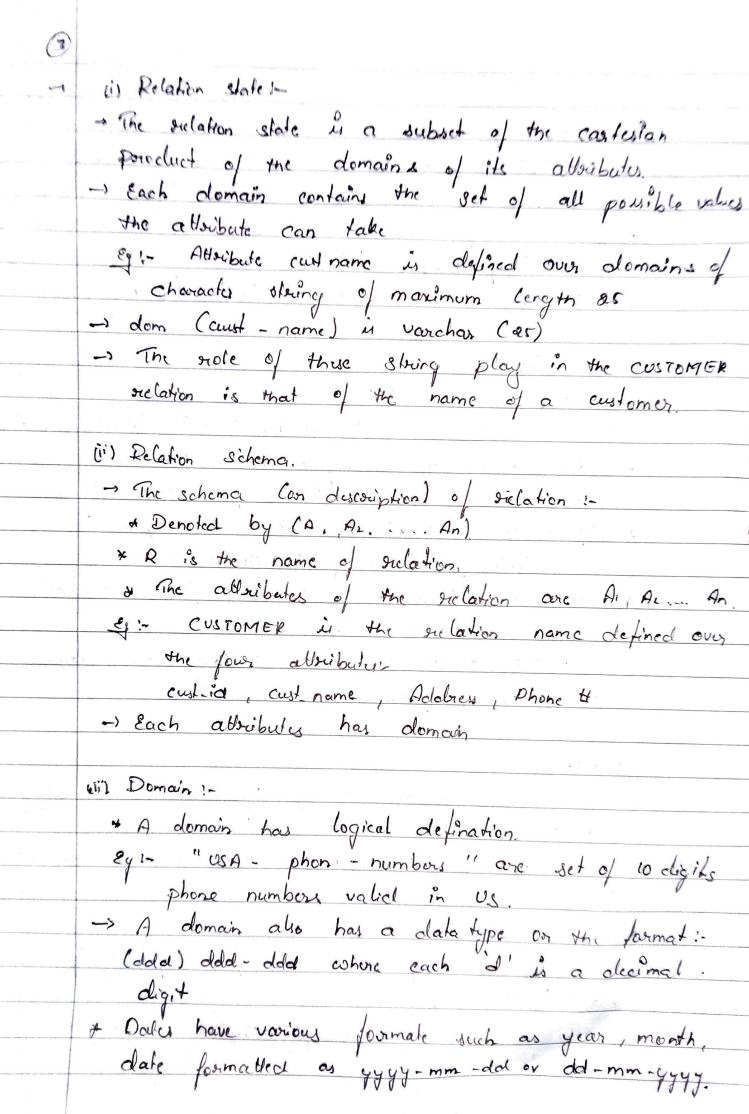
Discuss the different types of update operations on relational database, explain now basic experations deals evith constaint violation The Insect operation! + The INSERT operation provides a list of attributes values
for new tuple 't' that is to be insorted on relation (R) * INSERT Command, INSERT INTO , EMPLOYEE VALUES (- Richard', 'K', Movinil, 165329853'); INSERT can violate with a type of constraint in el Domain Constrain! A This can be violated of an attribute value is given that does not appear in the coursesponding domain. (ii) Key constraint :-* This can be vidated if a key value in the tuple "It' abready exists in another tuple in relation 'RI (iii) Entity Integraty: A This can be violated if any port of the primary
Key of the new tuple it is NULL (iv) Referencial Intigrity! . It can be violated if the value of any foxuign key in ct' reform to suple that does not excit

in referencial relation.

Est Iword into EMPLOYEE, here insortion violates entity integratly constraint, so it is prejected. -> The Delete operation DELETE Commande DELETE FROM EMPLOYEE WHERE LMAME = Brown; DELETE many violate only on reforencial integrity. il It the poimary key value of the tuple being deleted is referenced from other tuple in the database -> This can be remedied by the seneral actions RESTR. - ICT, CASCADE, SETHULL options. RESTRICT -> reject the deletion. CASCADE -> poropagates the new poimary key value into foreign keys of the referencing tuples. SETNULL > set the foregin keys of ireferencing typles Eg. - Delete the Employee tuple with SSN = 1236931 not acceptable The Update operation - Used to update set of values in the DATABASE UPDATE Command :-UPDATE DROJECT SET PLOCATION - Bellavi, DNUM = F where PNUMBER=10; Explain unary relational operations with example 1) unony orelational operations: * SELECT Csymbol: o (signai))







Discuss the Characteristics of exclations. -> -> Gradewing of texples in a relation Y(R): * The tiples are not constduced to be ordered, even though they appear to be in the tabular form ordering of attributes in a relation schema R. (and of values within each tuple). * We will consider the affairbutes in R(A, Az...An) and the values in + < V., Vz, Vn > to be * Values in a tuple! -> All values are Considered atomic (indivisible) - r Each value in a tuple must be from the domain of the attribute for that column & If tuple + < vi. vz..... vn? is a tuple (now) in the relation state v of R(A: A.An) * Then each vi must be a value from dom (Ai). -> A special null value is used to supresent value. that are unknown or not available or inapplicable in certain tuples -> A relation schema R of degree n is denoted by.
R(A, Az, ... An) -> The upparease letter &, R. E., denote relation names Notation: e + CAIT on f. Ar · This is the value vi of abbribed Ai for taple &

Employee LHAME SIN BOATE ADDRESS | SALARY SUPER SO F Name | MINII Department. D Name | D Number MGTRJINI MGRSTARTOATE Dept-location. D Number Dlocation Project. Plane Plumber Placation works on. PNO Home Explain the data types available for attribute specification in SQL. .-> Bit aboving data type. · Fixect length · Character string or bit string. · varying length: BIT varying (n).

· BLOB (Binary large object) , specifical using tilobits

(b), mag abits (M), on gigabits (q). -> Bolean clasa ypus:

· values	0	TRUE	0.7	FALSE	0.7	NOL
A STATE OF STREET, STR		- Maria Indiana - American - Amer		The second second		1100

- Dala dola type:-
 - Ten perialons
 - * Mulaple mapping functions available in ROBMISIS to change data formats.
 - * Components, are Year, month & Day in the form AAAA - WW-DD
- TIME DATA Type-

MINUTE & SECOND in the forms HH: MM:55.

- -> Attaibute Data types & Domain in SQL.
 - * Additional data types
 - * Timestamp data types.

Includes the DATE & TIME fields.

- · Plus a minimum of six positions for decimal funsce functions of seconds
- · Optional with time zone qualifies.
- · Literal: TIME STAMP 2004-08-27 10:13:50.
- · Data, time, time stamp, INTERVAL data type can be cast on converteet to aboutly formats for camp.