- 1. List some l'tegreity constraints:
 - · Praimary key Constraints
 - interland Impiled 347 mg · Forcoign key construcints Tuend fondinal. H.
 - · Unique constraints
 - · Not Null Constructints
 - · Check constraints
- 9. What is selection operation in relational algebra?
- one It selects rows that Satisfy a given producate. Syntam : o Condition (Relation)
- 3. Shoret notes on SELECT command in SQL: ans SELECT 18 used to retrieve data from a

Frample: SELECT & FROM Student;

- 4. Short notes on COUNT (*) command a Sal:
- and COUNT (x) meturns the total numbers of mows in a table, including NULL values.

trample: SELECT COUNT (*) FROM Students;

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Section-B

1. What is relational calculus, emplain? ans Relational calculus is a non- Priocederical query language. It tells what to retribut trather than how menters that told

Check Constitutions

Types!

- · Tuple Relational Calculus (TRC)
- · Domain Relational Calculus (DRC) Concemple (TRC): 9t 1t @ Student At marchs > 507
- 2. List and emplain aggregate functions & sal:
 - · COUNT(): Returns the number of rows,
 - . SUM (): calculates total of a numeric column.
 - · AVG(): Réturns average value.
 - omin (): Ands minimum Value.
 - · max (): Finds manimum value.

Encumple: SPLECT AVG (Smarck) FROM Student;

. 2 sulple 19014 Philadies alder o os

Sec-c

1. Complain Codd's 12 reules in relational destabase: Codd's reales define what is required from a DBMs for 9t to be considered relational:

· Rule 1: Information Rule

· Rule 2: Guaranteed Access Rule

· Rule 3: Systematic Treatment of NULLS.

· Ruley: Dynamic Online Catalog.

· Rule 5: Comprehensive Data Sub-Language.

· Rule 6: View Updating Rule

· Rule 7: High-level Insent, Update, Delieto

· Rule 8: Physical Data Independence

· Rule 9: Logical Doute Independence.

· Rule 10: Integrity Independence.

· Rule 11: Mistrabation Independence.

. Rule 12: Non-Subversion Rule.

2. Create STUDENT table and Percharm SQL Operation:

-- Create Table

CREATE TABLE STUDENT (

STEDI INT PRIMARY KEY,

Sname MARCHAR (50),

Saddre MARCHAR (100),

Smarch INT

);

-- INSERT Operation

INSERT INTO STUDENT VALUES (1, 'John', 'Delhi', 85);

-- UPDATE operaction

UPDATE STUDENT SET Smark = 90 WHERE Scoll = 1;

-- DELFTE OPERATION STUDENT WHERE SHOW = 1;