Join Operations: A goin operation combines related tuples from different relations, if and only if a given join condition is satisfied. It is denoted by 'M' EMPLOYEE (EMP_CODE, EMP_NAME) EMP_CODE EMP_NAME Rajdeep Subhalakshmi 101 10 2 enja Pnya s Adya s 103 105 SALARY (EMPLODE, SALARY) EMP_CODE CALARY 50000 101 60000 102 40000 103 EMPLOYEE, EMPLODE = SALARY, EMPLODE (EMPLOYEE M SALARY) EMP_CODE EMP_NAME SALARY Rajdeep 50000 Sybhalakshmi 60000 Brija. 40000 101 102 103 40000 Join Operation Northral Join Egui Join Outer Join. -> Left outer Join -> Right Outer Foin -> Full Outer Join. 1. Natural Join: O A natural join is the set of tuples of all combinations in R and S that are egual on their common attribute names.

~ TIO I ~ I I I KA

that are equal on their common attribute names.

O It is denoted by 'M'

EXAMPle: TEMP_NAME, SALARY (EMPLOYEE M SALARY)

EMP-NAME SALARY
Rajdeep 50000
Sybhalakshmi 60000
Erija 40000

Outer Join! The outer join operation is an extension of the join operation. It is used to deal with missing information.

EMPLOYEE

	2 -0 -	1
EMP_NAME	STREET	CITY
Ram	civil lines	Mumbai
Snyan	Park Street	Kolkah.
Ravi	M. G. Strept	Delhi
Han	Ne hry Nagar	Hyderabad.

FACT_WORKERS

EMP_NAME	BRANCH.	SALARY
Ran.	Into 8ys	10000
Shyam.	Infosys. Wipro	20000
Kuber	HCL	30000
Han	TCS	50000

(EMPLOYEE M FACT_WORKERS)

EMP_NAME	STREET	CITY	BRANCH.	SALARY
Ram	Civil Lines	Mymbal.	Infosys.	00001
Shyan	Park Street	Kolkata	Wixx	20000
Han	Nehry Nayar	t/yde rubad		22200

An outer join is basically of three types

- (a) Left outer join
- (b) Right outer join
 - (c) Full outer join.

(a) Left outer join :-

- > Left outer join contains the set of tuples of all combinations in R and S that are equal on their common attributes.
- > In the left outer join, typies in R have no matching tuples in S
- => It is denoted by I.

- => In the left outer join, typies in R have no matching tuples in S
- => I + is denoted by I.

Example: EMPLOYEE > FACT_WORKERS

EMP_NAME	STREET	CITY	BRANCH.	SALARY
4 Ram	Civil Lines	Mymbal.	Infosys	00001
Shyan	Park StoreT	Kolkata	Wipro	20000
Han	Nehry Nayer	tlyderabad	TCS	52200
Ravi	M. G. Street	Delhi	NULL	MULL

(b) Right outer join:

- => Right outer join contains the set of tuples of all combination in R and S that are equal on their common attribute names.
 - => In right outer join, tuples in S having no matching tuples in R
 - > It is denoted by IT!

Example:-

EMPLOYEE MI FACT_WORKERS.

EMP_NAME	STREET	CITY	BRANCH.	SALARY
Ram	Civil Lines	Mymbal.	Infosys.	00001
Shyan	Park Street	Kolkata	Infosys. Wipro	20000
Han	Nehry Nayar	th derabad	TCS.	22200
Kuber	NULL	NULL:	HCL	30000.

(e) Full outer join :-

- > Full outer join is like a left or night outer join that it contains all grows from both the tables.
- The full outer join, tuples in R that have no matching tuples in S and tuples in S that have no matching tuples in R in their common attribute.
- > It is denoted by IX

For example:

EMPLOYET IXI FACT WORKERS.

FMP_NAME	STREET	CITY	BRANCH	SALARY
Ram	Civil Lines	Mymbal.	Infosys.	00001
Shyan	Park HoreT	Kolkata	Wipm	20000
tan	Nehry Nayar	th devaluad		22200
Kuber	NULL	NULL.	HCL	30000.
Ravi	M. G. Street	Delhi	NULL	MULL

3. Equi Join: It is also known as an inner join. It is the most common join. It is based on matched data as per the equality condition. The equi join uses the compassioon operator (=)

