**Relational Algebra**

**Selection:**

**Ques**: Find out all the details of Manager having Id more than 401

Ans: [σ](https://en.wiktionary.org/wiki/%CF%83) M\_id>401 (Manager)

**Projection:**

**Ques:** Find out Ice cream name and price

Ans: π I\_name,I\_price (Ice\_cream)

**Selection & Projection:**

**Ques:** Find out the manager number whose name is Zoshim

Ans: π m\_id[[σ](https://en.wiktionary.org/wiki/%CF%83)m\_name=’Zoshim’ (Manager) ]

**Selection & Projection With condition:**

1. **Ques:** Find out all Waiter and all Manager’s name

Ans: π w\_name,m\_name[[σ](https://en.wiktionary.org/wiki/%CF%83" \o "σ)w.w\_id=m.w\_id or (salary>1000)(waiter Х manager)]

1. **Ques**: Find out the customer name and ice cream name where amount of bill are more than 200

Ans: π c\_name,I\_name[[σ](https://en.wiktionary.org/wiki/%CF%83" \o "σ)c.c\_id=b.c\_id or (amount>200) (customer Х bill)]

**Natural Join**

1. **Ques:** Find out the chef name and ice cream

## Ans: π Ch\_name,I\_name (Chef ⋈ Ice\_cream)

## Find out the customer name, phone, id and amount of the bill

## Ans: π C\_name,C\_phone,C\_ID,Amount (Customer ⋈ Bill )

## Left outer Join:

## Find the owner id and shop address and also find those shop whose owner number is not assigned

## Ans: π o\_id, s\_add (owner <https://www.guru99.com/images/1/100518_0535_RelationalA5.png> shop)

## Find out the customer name, phone number and bill number and also find those customer who are not pay bills yet.

## Ans: π c\_name, c\_phone,b\_number (customer <https://www.guru99.com/images/1/100518_0535_RelationalA5.png> bill)

## Right outer Join:

## Find out the e supplier name and ice cream name and also find those ice cream name which are not supplied by the supplier yet

## Ans: : π sup\_name, i\_name (Supply <https://www.guru99.com/images/1/100518_0535_RelationalA7.png> Ice\_cream)

## Find the cashier name and bill amount and also find the bill amount those bill which are not receive yet by cashier

## Ans: π ca\_name, b\_amount (cashier <https://www.guru99.com/images/1/100518_0535_RelationalA7.png> bill)

## Full outer Join:

## Find out the waiter name and manager name

## Ans: π W\_name,M\_name(Waiter <https://www.guru99.com/images/1/100518_0535_RelationalA9.png> Manager)

## Find out the ice cream name and supply quantity of the ice cream

## Ans: π I\_name,Sup\_quantity(Ice\_cream <https://www.guru99.com/images/1/100518_0535_RelationalA9.png> Supply)

## C:\Users\Rudro\Pictures\Screenshots\Screenshot (97).pngCartesian:

## Find out the Cartesian product of Shop number, address and area number.

## Ans: πs\_id, s\_add,a\_id(Shop Х Area)

## C:\Users\Rudro\Pictures\Screenshots\Screenshot (99).pngFind out the Cartesian product of bill number, amount and cashier name

## Ans: πb\_number, amount, ca\_name(bill Х cashier)

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