LABORATORIO-1/6

# Modelos y Bases de Datos- Grupo 1

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Parte UNO: **A. MODELO CONCEPTUAL**

1. ASTAH: guesthouse\_laboratorio2

***Diagrama\_conceptual\_general***

¿Qué cambios se realizaron?

Debido a que en el Laboratorio 1, el objetivo fue realizar INGENIERIA EN REVERSA, el diagrama no sufrió cambios.

1. ASTAH: guesthouse\_laboratorio2

***Diagrama\_conceptual\_general***

***B. MODELO LOGICO***

1. ASTAH: guesthouse\_laboratorio2

***Modelo\_logico***

¿Qué cambios se realizaron?

* La realización en ASTAH
* Debido a la instrucción “***describe***” en sqlzoo, se obtuvieron los valores NULL en algunas tablas que se ven representados con “!” en el modelo lógico, al derecho del nombre del atributo

1. Señalizacion de colores en:

ASTAH: guesthouse\_laboratorio2

***Modelo\_logico***

Parte DOS: **DIVISION POR CICLOS**

1. ***DEFINICION POR CICLOS***

***Ciclo 1:*** ASTAH: guesthouse\_laboratorio2

***Diagrama\_Ciclo1***

***Ciclo 2:*** ASTAH: guesthouse\_laboratorio2

***Diagrama\_Ciclo2***

Parte TRES: **Ciclo Uno**

**C. 1**

C.

* **SELECT** room\_type\_requested,**COUNT**(room\_type\_requested)

**FROM** booking

**GROUP** **BY** room\_type\_requested

* **SELECT** **SUM**(suma)

**FROM**(**SELECT** **COUNT**(room\_type\_requested)\*max\_occupancy **AS** suma

**FROM** room **JOIN** booking **ON** id=room\_no

**GROUP** **BY** room\_type\_requested,max\_occupancy) **AS** k

Parte Cuatro: Ciclo Dos

**Caso 1:**

**SELECT** a,1st,2nd,3rd FROM

(**SELECT** booking\_date + **INTERVAL** nights **DAY** a, **COUNT**(room\_no) 1st **FROM** booking

**WHERE** booking\_date + **INTERVAl** nights **DAY** >= '2016-01-01' AND booking\_date + INTERVAL nights **DAY** <= '2016-12-31' **AND** room\_no **LIKE** '1%'

**GROUP** **BY** booking\_date + **INTERVAl** nights DAY ) x,

(**SELECT** booking\_date + **INTERVAl** nights **DAY** b, **COUNT**(room\_no) 2nd **FROM** booking

**WHERE** booking\_date + **INTERVAl** nights **DAY** >= '2016-01-01' **AND** booking\_date + **INTERVAL** nights **DAY** <= '2016-12-31' **AND** room\_no **LIKE** '2%'

**GROUP** **BY** booking\_date + **INTERVAL** nights **DAY** ) y,

(**SELECT** booking\_date + **INTERVAL** nights **DAY** c, **COUNT**(room\_no) 3rd **FROM** booking

**WHERE** booking\_date + **INTERVAL** nights **DAY** >= '2016-01-01' AND booking\_date + **INTERVAL** nights **DAY** <= '2016-12-31' **AND** room\_no **LIKE** '3%'

**GROUP** **BY** booking\_date + **INTERVAL** nights **DAY** ) z

**WHERE** a = b **AND** b=c

**ORDER** **BY** a

ASTAH: guesthouse\_laboratorio2

*Caso\_de\_uso\_1\_consultasC*

***Caso 2:***

***SELECT*** *booking\_date,count(arrival\_time)*

***FROM*** *booking*

***WHERE*** *booking\_date* ***BETWEEN*** *'2016-11-01'* ***AND*** *'2016-12-31'*

***GROUP******BY*** *booking\_date*

***ORDER******BY*** *booking\_date*

ASTAH: guesthouse\_laboratorio2

*Caso\_de\_uso\_*2*\_consultasC*

*CONSULTAS PARTE*

* ***1SELECT*** *id, first\_name,last\_name,address*

***FROM*** *booking* ***JOIN*** *guest* ***ON*** *(guest\_id = id)*

***WHERE*** *nights>=7*

* **2SELECT** booking\_id, **SUM**(amount\*nights) + **COALESCE**((**SELECT** **SUM**(amount)

**FROM** extra

**WHERE** booking.booking\_id = extra.booking\_id),0)

**FROM** booking **JOIN** rate **ON** (room\_type\_requested=room\_type **AND** occupancy = occupants)

**GROUP** **BY** booking\_id

* ***3SELECT*** *booking\_id*

***FROM*** *booking* ***JOIN*** *room* ***ON*** *(room\_type****<>****room\_type\_requested* ***AND*** *room\_no=id)*

* *4* ***SELECT*** *room\_type\_requested,description,* ***COUNT****(description)*

***FROM*** *booking* ***JOIN*** *room\_type* ***ON*** *(id=room\_type\_requested)*

***GROUP******BY*** *room\_type\_requested, description*

* ***SELECT*** *r.last\_name, r.first\_name, t.first\_name*

***FROM*** *guest* ***AS*** *r* ***JOIN*** *guest* ***AS*** *t* ***ON*** *(r.last\_name=t.last\_name* ***AND*** *r.id<>t.id)*