R Notebook

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the Run button within the chunk or by placing your cursor inside it and pressing Cmd+Shift+Enter.

SELECT * FROM customers;

Table 1: Displaying records 1 - 10

Custo	oFriest/NaasteNaftoempany	Address	City	Sta	t€ountı	r P osta	a ll'Elocohe e	Fax	Email	SupportRepId
1	Luís Gonça Res braer - Empresa Brasileira de Aeronáutica S.A.	Av. Brigadeiro Faria Lima, 2170	São José dos Cam- pos	SP	Brazil	1222' 000	7+55 (12) 3923- 5555	+55 (12) 3923- 5566	luisg@e mbraer .com.b r	3
2	Leoni&öhlerNA	Theodor- Heuss- Straße 34	Stuttgar	rtNA	Germa	n i y0174	4+49 0711 2842222	NA	leonek ohle r@sur feu.de	5
3	Françdisemb liyA	1498 rue Bélanger	Montréa	lQC	Canad		+1 (514) 721- 4711	NA	ftremb lay@g mail.c om	3
4	Bjørn Hansen N A	Ullevålsveien 14	Oslo	NA	Norwa	y0171	+47 22 44 22 22	NA	bjorn. hansen @yah oo.no	4
5	$\label{eq:FrantisticConstraints} Frantistic heterooperains s.r.o.$	Klanova 9/506	Prague	NA	Czech Re- pub- lic	1470	0+420 2 4172 5555	+420 2 4172 5555	franti sekw@j etbrai ns.com	4
6	HelenaHolý NA	Rilská 3174/6	Prague	NA	Czech Re- pub- lic	1430	0+420 2 4177 0449	NA	hhol y@gma il.com	5
7	AstridGruberNA	Rotenturmstr 4, 1010 Innere Stadt	ra Vi enne	NA	Austria	a1010	+43 01 5134505	NA	astrid .grube r@app le.at	5
8	Daan PeetersNA	Grétrystraat 63	Brussels	NA	Belgiu	m1000	+32 02 219 $03 03$	NA	daan _peete rs@app le.be	4

Cust	to FriesIdNaast eNa doo mpany	Address	City	Stat Country Posta I Ploodee	Fax	Email	SupportRepId
9	Kara NielsenNA	Sønder Boulevard 51	Copenh	ageA Denmarl 720 +453 3331 9991	NA	kara.n ielsen @jubii .dk	4
10	EduarMartinWoodstock Discos	Rua Dr. Falcão Filho, 155	São Paulo	SP Brazil 01007+55 010 (11) 3033- 5446	+55 (11) 3033- 4564	eduard o@woo dstock .com.b	4

1.(5 pts) What are the last names, city, and state of all customer who made at least one purchase?

Table 2: Displaying records 1 - 10

LastName	City	State
Gonçalves	São José dos Campos	SP
Köhler	Stuttgart	NA
Tremblay	Montréal	QC
Hansen	Oslo	NA
Wichterlová	Prague	NA
Holý	Prague	NA
Gruber	Vienne	NA
Peeters	Brussels	NA
Nielsen	Copenhagen	NA
Martins	São Paulo	SP

2.(5 pts) What are the titles of each albums and the artists who created it?

Table 3: Displaying records 1 - 10

Title	Name
For Those About To Rock We Salute You	AC/DC
Balls to the Wall	Accept
Restless and Wild	Accept
Let There Be Rock	AC/DC
Big Ones	Aerosmith
Jagged Little Pill	Alanis Morissette
Facelift	Alice In Chains
Warner 25 Anos	Antônio Carlos Jobim
Plays Metallica By Four Cellos	Apocalyptica
Audioslave	Audioslave

 $3.(10 \mathrm{\ pts})$ What are the total number of unique customers for each country, ordered alphabetically by country who made at least one purchase?

Table 4: Displaying records 1 - 10

Country	Number
Argentina	1
Australia	1
Austria	1
Belgium	1
Brazil	5
Canada	8
Chile	1
Czech Republic	2
Denmark	1
Finland	1

 $4.(10~\mathrm{pts})$ How many customers never made a purchase, i.e., they appear in the customers table but not in the invoices table.

Table 5: 1 records

 $\frac{\overline{\text{count}()}}{0}$

5.(10 pts) What are the names of the albums containing the substring "symphony" in the album title?

Table 6: 4 records

Name

Symphony No.1 in D Major, Op.25 "Classical", Allegro Con Brio

Prometheus Overture, Op. 43

Symphony No. 3 Op. 36 for Orchestra and Soprano "Symfonia Piesni Zalosnych" Lento E Largo -

Tranquillissimo

Le Sacre Du Printemps: I.iv. Spring Rounds

6.(15 pts) What is the total "price" of all tracks per artist, i.e., add up the "UnitPrice" column in tracks?

Table 7: Displaying records 1 - 10

Total Price	Name
9.90	AC/DC
0.99	Accept
2.97	Accept
7.92	AC/DC
14.85	Aerosmith
12.87	Alanis Morissette
11.88	Alice In Chains
13.86	Antônio Carlos Jobim
7.92	Apocalyptica
13.86	Audioslave

7.(20 pts) Which artist(s) published the most tracks, regardless of type and format? List the artist(s) name(s).

Table 8: 1 records

Count	Name
213	Iron Maiden

 $8.(25 \mathrm{\ pts})$ What is the total amount of music for each genre (in hours)? List the genre and time rounded to two decimals.

Table 9: Displaying records 1 - 10

Name	SUM
Rock	102.29
Jazz	10.54
Metal	32.18
Alternative & Punk	21.61
Rock And Roll	0.45
Blues	6.08
Latin	37.45
Reggae	3.98
Pop	3.05
Soundtrack	2.92

dbDisconnect(dbcon)