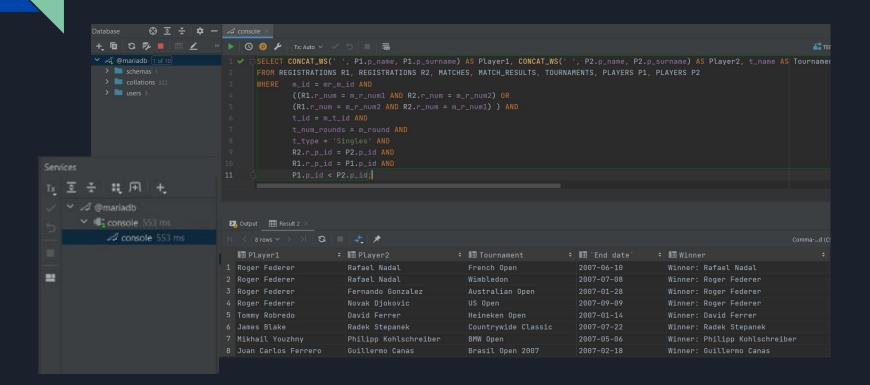
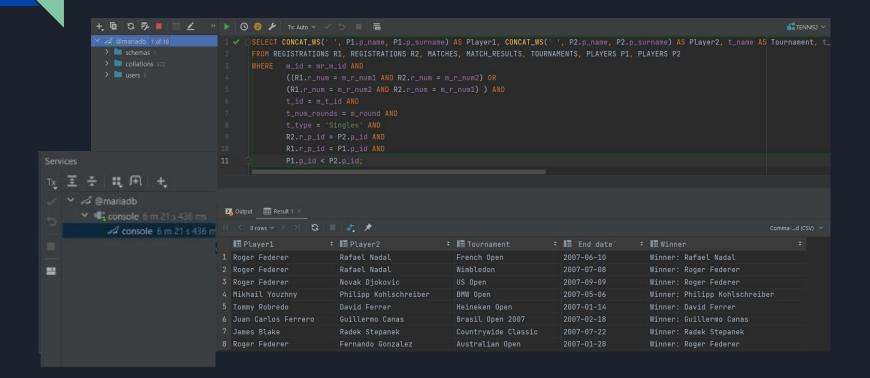
P9. Work in pairs. Index Importance

Albert Perelló Francesc Borràs

TENNIS.sql



TENNIS_NOPK_NOFK.sql



INDEXING

Indexing makes columns **faster** to query by creating pointers to where data is stored within a **database**. ... If the table was ordered alphabetically, searching for a name could happen a lot **faster** because we could skip looking for the data in certain rows.

Creating a new database

With PK and FK(P09):

```
CUST_COUNTRY varchar(20) NOT NULL,
  KEY "CUSTCITY COUNTRY" ("CU
) ENGINE=MyISAM DEFAULT CHARS
                               ENGINE=MyISAM DEFAULT CHARSET=latin1;
) ENGINE=MyISAM DEFAULT CHARS
                             ) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

Without PK and FK(P09_2):

```
CREATE DATABASE P09 2:
  CUST CODE varchar(6) NOT NULL.
  CUST_CITY varchar(35) DEFAULT NULL,
  WORKING AREA: varchar(35) NOT NULL.
  CUST_COUNTRY varchar(20) NOT NULL,
  PAYMENT_AMT decimal(12,2) NOT NULL,
  OUTSTANDING_AMT decimal(12.2) NOT NULL.
) ENGINE=MyISAM DEFAULT CH/
  ORD NUM decimal(6.0) NO
  ORD_DATE date NOT NULL
                             `ADVANCE_AMOUNT` decimal(12.2) NOT NULL.
) ENGINE=MVISAM DEFAULT CHA
                             CUST_CODE varchar(6) NOT NULL,
                           ) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

Advanced query

ORDER BY O.ORD_DATE;

```
SELECT CONCAT_WS(' /',C.CUST_CODE, C.CUST_NAME) as Client,

CONCAT(O.ORD_NUM, ' /', (DATE_FORMAT(O.ORD_DATE, '%W %D %M %Y'))) as Comanda,

CONCAT(SUBSTRING(O.ORD_AMOUNT, 1, 4), ' $') as Preu,

CONCAT_WS('/', A.AGENT_CODE, A.AGENT_NAME) as Agent

FROM customer C, orders O, agents A

WHERE C.CUST_CODE = O.CUST_CODE AND

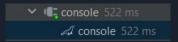
C.AGENT_CODE = A.AGENT_CODE AND

O.ORD_AMOUNT between 1000 and 3000
```

Advanced query response

	I Clien		I≣ Coman	da	I≣ Preu	III Age	nt	
	C00015	/Stuart	200100	/Tuesday 8th January 2008	1000 \$	A003	/Alex	
	C00013	/Holmes	200115	/Friday 8th February 2008	2000 \$	A003	/Alex	
	C00006	/Shilton	200104	/Thursday 13th March 2008	1500 \$	A004	/Ivan	
	C00019	/Yearannaidu	200110	/Tuesday 15th April 2008	3000 \$	A010	/Santakumar	
	C00005	/Sasikant	200106	/Sunday 20th April 2008	2500 \$	A002	/Mukesh	
	C00021	/Jacks	200103	/Thursday 15th May 2008	1500 \$	A005	/Anderson	
	C00012	/Steven	200102	/Sunday 25th May 2008	2000 \$	A012	/Lucida	
	C00016	/Venkatpati	200112	/Friday 30th May 2008	2000 \$	A007	/Ramasundar	
	C00009	/Ramesh	200133	/Sunday 29th June 2008	1200 \$	A002	/Mukesh	
10	C00020	/Albert	200111	/Thursday 10th July 2008	1000 \$	800A	/Alford	
11	C00001	/Micheal	200101	/Tuesday 15th July 2008	3000 \$	A008	/Alford	
12	C00025	/Ravindran	200105	/Friday 18th July 2008	2500 \$	A011	/Ravi Kumar	
13	C00015	/Stuart	200127	/Sunday 20th July 2008	2500 \$	A003	/Alex	
14	C00024	/Cook	200129	/Sunday 20th July 2008	2500 \$	A006	/McDen	
15	C00025	/Ravindran	200130	/Wednesday 30th July 2008	2500 \$	A011	/Ravi Kumar	
16	C00007	/Ramanathan	200135	/Tuesday 16th September 2008	2000 \$	A010	/Santakumar	
17	C00003	/Martin	200122	/Tuesday 16th September 2008	2500 \$	A004	/Ivan	
18	C00008	/Karolina	200121	/Tuesday 23rd September 2008	1500 \$	A004	/Ivan	
19	C00018	/Fleming	200125	/Friday 10th October 2008	2000 \$	A005	/Anderson	

With PK and FK(P09):



Without PK and FK(P09_2):

