

We Offer Wellness Report 4: DW design and implementation

Project status

Since the last report, I have completed the following tasks:

- In the screenshot below, you can clearly see primary keys and foreign keys.

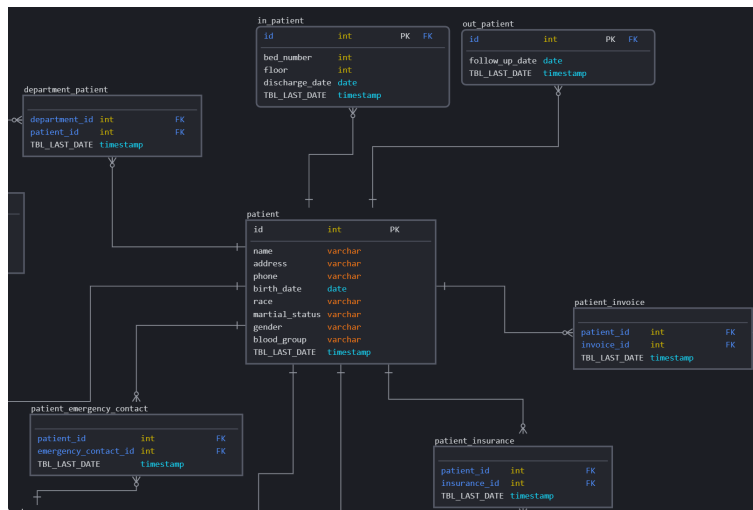


Figure 1: Example of primary keys and foreign keys.

- Added at least 10 entries to each table in the OLTP database

Data Output		Explain	Messages	Notifications		
id [PK] integer		name character varying	office_phone character varying	personal_phone character varying	specialty character varying	tbl_last_date timestamp without time zone
1		Gregory Nelson	(852) 324-5075	(448) 528-3451	hymenaeos.	2021-12-30 09:57:03
2		Scott Morris	(306) 423-2286	(388) 658-6637	neq.	2022-08-07 12:42:01
3		Camden Dillon	(506) 643-2361	(713) 514-1542	sagittis	2021-07-27 14:08:26
4		Jermaine Burt	(787) 244-2125	(852) 443-2419	laoreet.	2021-04-16 21:58:33
5		Adrian Salazar	(638) 434-7144	(863) 637-9129	odio.	2022-05-16 22:12:32
6		Odysseus Lowe	(713) 838-1278	(853) 216-8823	eu	2022-09-12 11:54:47
7		Brett Gonzales	(236) 978-9155	(614) 511-3564	mi.	2021-04-05 01:05:33
8		Ria Hopper	(769) 524-4746	(151) 573-1748	Integer	2021-04-16 22:03:58
9		Hayfa Mcleod	(486) 600-4162	(338) 620-5778	dapibus	2022-04-07 21:22:37
10		Samson Carroll	(698) 838-7129	(333) 335-2566	mauris.	2021-12-19 22:37:41
11		Irene Singleton	(873) 510-8531	(310) 235-1378	eu	2020-12-28 20:08:05
12		Julian Bell	(184) 261-8245	(474) 503-1794	elementum	2021-04-15 09:21:11
13		Cullen Williams	(287) 357-6264	(621) 362-4103	ultrices	2021-04-28 21:04:16
14		Zachary Foley	(180) 954-6360	(218) 485-6768	Morbi	2022-04-30 01:51:52
15		Wanda McIntosh	(843) 314-2801	(394) 678-2282	ante.	2022-06-16 21:06:53
16		Gary Brady	(625) 342-6370	(130) 890-7260	nulla	2022-01-23 01:30:38
17		Octavia McDonald	(384) 966-2388	(630) 614-3343	elit	2021-05-06 08:59:24
18		Keele Shelton	(168) 249-3869	(842) 766-8988	ac	2021-10-18 12:24:21
19		Hedda Walton	(721) 571-4606	(439) 763-3728	Vivamus	2021-09-30 04:46:35
20		Kyle Nash	(223) 986-2736	(351) 797-4775	rutrum	2021-03-26 16:51:14

Figure 2: Doctor table sample data.

- Designed and deployed Data Warehouse on Amazon Redshift.

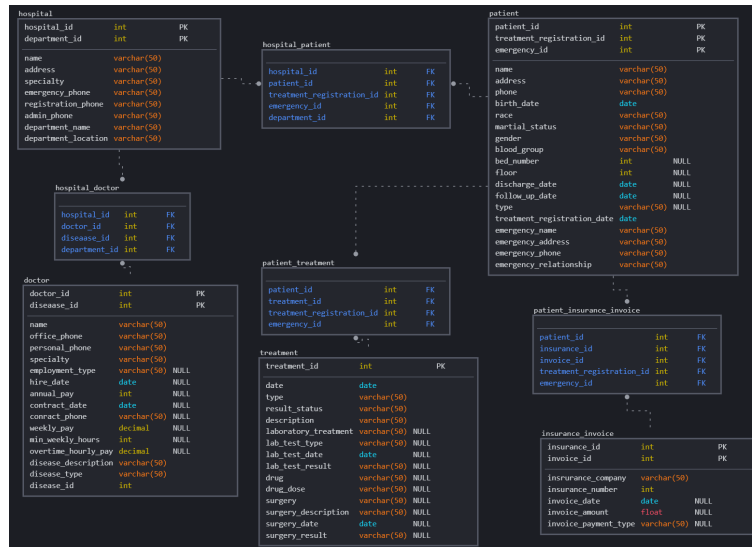


Figure 3: DW relational diagram.

- Added history tables for in-patient, out-patient, treatment, consulting doctor, and full-time doctor, tables.

Project progress

Below, you can see the timeline of the project. The completed stages of the project are marked with bold font.

- **9/26/2021: OLTP database design.**
- **10/10/2021: OLTP database implementation.**
- **10/24/2021: DW design and implementation.**
- 11/07/2021: ETL code.
- 11/21/2021: reports and analytics from DW database.
- 12/12/2021: end-to-end tests, project demo.
- 12/14/2021: final project report.
- TBA: final presentation.

Project planned work

- ETL code.