

The webservice-supporting queries are meant to let users start with their list of patient sets and then drill down into those sets, starting with groups of concepts and counts and ending with users getting a list of all or some facts related to the patients in the set.

The main query calls are these. Examples in this document show the possible parameter values and the structure of the dataset returned.

1. `pat_ids_i2b2_query_vw`: Get all patient identifiers from a patient set
2. `get_dmgrpnc_dtl_i2b2_query_vw`: Get all patient demographics details in LDS format for a patient set.
3. `get_visit_dtl_i2b2_query_vw`: Get all the encounter details for patients in a patient set.
4. `pat_aggr_i2b2_query_vw`: Get aggregate counts from a patient set. Can request these groups: DEMOGRAPHICS, ENCOUNTERS_PER_YEAR, CODE_PREFIX_FAMILY, or something specific like SNOMED or CPT facts.
5. `pat_futappt_i2b2_query_vw`: Get future appointments over next 30 days for patients in a set
6. `get_facts_i2b2_query_vw`: Gets detailed fact data, not aggregates, for patients in a set. User could ask for all facts or just a specific subset. The function determines what is allowed to be returned to the user.

1. User logs in and can see a list of all their i2b2 query patient sets
 - This is delivered by Han's database, web service call to be determined

| RESULT_INSTANCE_ID | I2B2_INSTANCE | DESCRIPTION | START_DATE |
|--------------------|---------------|--|---------------------|
| 29899 | i2b2LDS | Patient Set for "Belgium French@09:17:20" | 08/14/2018 10:17:26 |
| 29897 | i2b2LDS | Patient Set for "Belgium French@09:15:48" | 08/14/2018 10:16:06 |
| 29886 | i2b2LDS | Patient Set for "Belgium French@06:05:19" | 08/14/2018 07:05:26 |
| 29830 | i2b2LDS | Patient Set for "Unspecified nep@12:47:45" | 08/10/2018 13:47:46 |
| 29828 | i2b2LDS | Patient Set for "Chronic nephrit@12:46:34" | 08/10/2018 13:46:38 |
| 29706 | i2b2LDS | Patient Set for "Pulmona-Metform@13:23:58" | 08/02/2018 14:24:06 |
| 29700 | i2b2LDS | Patient Set for "metformin_and_diabetes" | 08/02/2018 14:19:43 |
| 29636 | i2b2LDS | Patient Set for "Dietary counsel@08:23:02" | 07/31/2018 09:23:06 |
| 29628 | i2b2LDS | Patient Set for "Colorec-Seconda@15:26:24" | 07/30/2018 16:26:33 |
| 29626 | i2b2LDS | Patient Set for "Riddle colorectal metastasis to liver no liver surgery" | 07/30/2018 15:55:54 |
| 29620 | i2b2LDS | Patient Set for "TransChart Tran@09:18:29" | 07/27/2018 10:18:34 |
| 29612 | i2b2LDS | Patient Set for "Mullerian mixed@12:30:15" | 07/26/2018 13:30:19 |
| 29501 | i2b2LDS | Patient Set for "Color-Secon-By Pr@09:59:24" | 07/23/2018 10:59:27 |
| 29493 | i2b2LDS | Patient Set for "PATSET CA125 FEMALE 25-35 RDALEJ" | 07/23/2018 10:15:43 |
| 29432 | i2b2LDS | Patient Set for "TransCh-Awaitin@14:57:13" | 07/21/2018 15:57:14 |
| 29430 | i2b2LDS | Patient Set for "TransCh-Awaitin@14:27:18" | 07/21/2018 15:27:20 |
| 29392 | i2b2LDS | Patient Set for "Other s-AdmittiPATSET" | 07/19/2018 08:25:29 |
| 29006 | i2b2LDS | Patient Set for "Ost-Pat-Dua-Ost-FEM@13:03:42" | 07/12/2018 14:03:45 |
| 29004 | i2b2LDS | Patient Set for "Ost-Pat-Dua-Ost-FEM@13:02:09" | 07/12/2018 14:02:19 |
| 2321 | i2b2CORE | Patient Set for "Adverse event d@15:01:40" | 07/11/2018 16:01:41 |
| 2319 | i2b2CORE | Patient Set for "Adverse event d@15:01:24" | 07/11/2018 16:01:25 |

2. The user selects the patient set outlined above. They want to get a list of patient IDs, so the webservice call is: SELECT * FROM TABLE(i2b2core.pat_ids_i2b2_query_vw('rdalej','i2b2lds',29706))

| MRN | I2B2_PATIENT_ID | PERSON_KEY | PERSON_SK | SYSTEM_1 | SYSTEM_1_ID | SYSTEM_2 | SYSTEM_2_ID |
|--------|-----------------|------------|-----------|----------|-------------|----------|-------------|
| (null) | 623606 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 1678475 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 2225782 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 2352266 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 19222803 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 1006984 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 2172724 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 1963581 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 2417226 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 1871463 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 1664543 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 436138 | (null) | (null) | (null) | (null) | (null) | (null) |
| (null) | 544368 | (null) | (null) | (null) | (null) | (null) | (null) |

This is an LDS data set, so the user can see i2b patient numbers but can't get MRNs or other values.

3. Get all the demographics detail in an LDS format for the patient set. The webservice call: select * from table(i2b2core.get_dmgrpnc_dtl_i2b2_query_vw ('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET')) ;

| I2B2_PATIENT_ID | VITAL_STATUS_CD | BIRTH_DATE | DEATH_DATE | AGE_IN_YEARS_NUM | RACE_CD | ETHNIC_GROUP_CD | ZIP_CD |
|-----------------|-----------------|------------|------------|------------------|------------------------------|---------------------|--------|
| 2105474 | Deceased | 03/31/1969 | 12/21/2015 | | -1 White | Non-Hispanic/Latino | 38829 |
| 2416245 | Alive | 07/17/1948 | (null) | | 69 White | Non-Hispanic/Latino | 35242 |
| 808590 | Alive | 10/14/1956 | (null) | | 61 White | Non-Hispanic/Latino | 35983 |
| 219126 | Alive | 01/07/1951 | (null) | | 67 White | Non-Hispanic/Latino | 35150 |
| 674619 | Deceased | 04/16/1947 | 12/16/2014 | | -1 White | Non-Hispanic/Latino | 35213 |
| 240437 | Alive | 05/19/1948 | (null) | | 70 White | Non-Hispanic/Latino | 35080 |
| 767669 | Alive | 03/29/1976 | (null) | | 42 Black or African American | Non-Hispanic/Latino | 36726 |
| 2233434 | Alive | 11/07/1953 | (null) | | 64 Black or African American | Non-Hispanic/Latino | 35206 |
| 2028248 | Alive | 01/14/1954 | (null) | | 64 Black or African American | Non-Hispanic/Latino | 35126 |
| 2189463 | Alive | 07/07/1969 | (null) | | 48 White | Non-Hispanic/Latino | 35633 |
| 2056905 | Alive | 10/03/1949 | (null) | | 68 White | Non-Hispanic/Latino | 36784 |
| 2193285 | Alive | 01/27/1961 | (null) | | 57 Black or African American | Non-Hispanic/Latino | 39180 |
| 125103 | Alive | 07/05/1960 | (null) | | 57 Black or African American | Non-Hispanic/Latino | 35901 |
| 2474154 | Deceased | 08/29/1952 | 02/08/2015 | | -1 Black or African American | Non-Hispanic/Latino | 35234 |
| 2156663 | Alive | 04/28/1950 | (null) | | 68 White | Non-Hispanic/Latino | 35601 |
| 753185 | Alive | 03/22/1961 | (null) | | 57 Asian | Non-Hispanic/Latino | 35226 |
| 748564 | Alive | 04/16/1937 | (null) | | 81 Black or African American | Non-Hispanic/Latino | 35211 |
| 1963581 | Alive | 07/27/1941 | (null) | | 76 White | Non-Hispanic/Latino | 35045 |
| 1428187 | Alive | 02/27/1941 | (null) | | 77 White | Non-Hispanic/Latino | 35677 |
| 1478562 | Alive | 08/01/1953 | (null) | | 64 White | Non-Hispanic/Latino | 35055 |
| 1724201 | Alive | 03/22/1950 | (null) | | 68 White | Non-Hispanic/Latino | 35068 |
| 1714890 | Alive | 01/31/1963 | (null) | | 55 White | Non-Hispanic/Latino | 35906 |

4. Get all the encounter details for the patient set. The webservice call: select * from table(i2b2core.get_visit_dtl_i2b2_query_vw ('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET')) ;

| I2B2_PATIENT_ID | I2B2_ENCOUNTER_ID | START_DATE | END_DATE | LENGTH_OF_STAY_DAYS | INOUT_CD | ENCTR_TYPE | LOCATION_CD | ADMISSION_SOURCE | DISCHARGE_DISPOSITION | ENCOUNTER_CATEGORY |
|-----------------|-------------------|------------|------------|---------------------|-----------|------------|-----------------------------|------------------|-----------------------|--------------------|
| 2105474 | 2204338 | 07/10/2012 | 07/25/2012 | 14 | Onetime | Outpatient | \KCL\TRC Pulmonary | Unknown | Unknown | Clinical |
| 2105474 | 2204339 | 07/10/2012 | 07/25/2012 | 15 | Onetime | Outpatient | \KCL\TRC Pulmonary | Unknown | Unknown | Clinical |
| 2105474 | 2205680 | 07/10/2012 | 07/25/2012 | 15 | Onetime | Outpatient | \KCL\TRC Cardiac Procedures | Unknown | Unknown | Clinical |
| 2105474 | 7575517 | 04/08/2014 | 04/23/2014 | 14 | Onetime | Outpatient | \KCL\TRC Pulmonary | Unknown | Unknown | Clinical |
| 2105474 | 7579939 | 05/16/2014 | 05/31/2014 | 15 | Onetime | Outpatient | \KCL\TRC Lung Transplant | Unknown | Unknown | Clinical |
| 2105474 | 7583659 | 05/16/2014 | 05/31/2014 | 15 | XA | | \KCL\TRC Pulmonary | Unknown | Unknown | Clinical |
| 2105474 | 7719767 | 05/03/2014 | 05/03/2014 | 0 | Onetime | Outpatient | \KCL\TRC - CT | Unknown | Unknown | Clinical |
| 2105474 | 11428689 | 12/01/2015 | 12/16/2015 | 15 | Onetime | Outpatient | \KCL\TRC Cardiology | Unknown | Unknown | Clinical |
| 2105474 | 7875513 | 05/16/2014 | 05/31/2014 | 15 | XA | | \KCL\TRC Radiology MRI | Unknown | Unknown | Clinical |
| 2105474 | 7882041 | 07/18/2014 | 08/02/2014 | 15 | XA | | \KCL\TRC Pulmonary | Unknown | Unknown | Clinical |
| 2105474 | 7887980 | 07/18/2014 | 08/02/2014 | 15 | Onetime | Outpatient | \KCL\TRC Lung Transplant | Unknown | Unknown | Clinical |
| 2105474 | 8050304 | 07/23/2014 | 07/23/2014 | 0 | Onetime | Outpatient | \KCL\TRC - CT | Unknown | Unknown | Clinical |
| 2105474 | 11796557 | 01/01/1900 | (null) | 0 | Scheduled | Outpatient | UAB HOSPITAL | Unknown | Unknown | Clinical |
| 2105474 | 11798638 | 01/01/1900 | (null) | 0 | Scheduled | Outpatient | UAB HOSPITAL | Unknown | Unknown | Clinical |

5. The user selects the same patient set outlined but this time wants to see a **list of future appointments**. The webservice call is:

```
select * from table(i2b2core.pat_futappt_i2b2_query_vw('rdalej',i2b2lds,29706,'I2B2_PATIENT_SET'))
```

| I2B2_PATIENT_ID | MRN | APPT_DATE | APPT_LOCATION | APPT_PROVIDER | I2B2_ENCOUNTER_ID |
|-----------------|--------|------------|------------------------------|-------------------------------------|-------------------|
| 2222159 | (null) | 08/27/2018 | UAB HIGHLANDS PAIN CLINIC | Physician Name unknown at this time | 228523685 |
| 1199196 | (null) | 08/28/2018 | Sleep Lab Highlands | Physician Name unknown at this time | 227181488 |
| 387338 | (null) | 08/28/2018 | \KCL\TKC Cardiology | Physician Name unknown at this time | 228359555 |
| 387338 | (null) | 08/28/2018 | \KCL\TKC Pulmonary | Physician Name unknown at this time | 228361155 |
| 10818638 | (null) | 08/29/2018 | LEEDS - CT | Physician Name unknown at this time | 228453668 |
| 1134971 | (null) | 08/30/2018 | Primary Care - Highlands | Physician Name unknown at this time | 227665547 |
| 2424796 | (null) | 08/30/2018 | Infusion Clinic JT15 | Physician Name unknown at this time | 228412503 |
| 177182 | (null) | 08/30/2018 | \KCL\TKC - CT | Physician Name unknown at this time | 226619922 |
| 1763654 | (null) | 09/04/2018 | Acton Rd Hem/Onc Cln | Physician Name unknown at this time | 217259995 |
| 2064124 | (null) | 09/04/2018 | \KCL\TKC Pulmonary | Physician Name unknown at this time | 228352032 |
| 1689722 | (null) | 09/05/2018 | \KCL\TKC - CT | Physician Name unknown at this time | 226616270 |
| 1514774 | (null) | 09/05/2018 | WHITAKER INTERNAL MEDICINE 3 | Physician Name unknown at this time | 226685767 |
| 120696 | (null) | 09/05/2018 | \KCL\TKC-Vascular Lab | Physician Name unknown at this time | 207313427 |
| 120696 | (null) | 09/05/2018 | \KCL\TKC-Vascular Lab | Physician Name unknown at this time | 217231177 |
| 120696 | (null) | 09/05/2018 | \KCL\TKC-Vascular Lab | Physician Name unknown at this time | 205764166 |
| 44986481 | (null) | 09/06/2018 | Spain Rehab - Office | Physician Name unknown at this time | 228567856 |
| 108729 | (null) | 09/11/2018 | Radiation Oncology | Physician Name unknown at this time | 207877739 |
| 231690 | (null) | 09/11/2018 | \KCL\TKC Pulmonary | Physician Name unknown at this time | 227681054 |

6. The user selects the same patient set outlined but this time wants to see **demographic aggregates** this time. The webservice call is: select * from table(i2b2core.pat_aggr_i2b2_query_vw('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET', 'DEMOGRAPHICS')) ;

| ITEM_COUNT | ITEM_CODE | ITEM_GROUP |
|------------|----------------------------------|---------------------------------------|
| 222 | FEMALE | Gender - Distinct Patient Count |
| 238 | MALE | Gender - Distinct Patient Count |
| 1 | Hispanic/Latino | Ethnicity - Distinct Patient Count |
| 3 | Unknown | Ethnicity - Distinct Patient Count |
| 6 | Not reported | Ethnicity - Distinct Patient Count |
| 450 | Non-Hispanic/Latino | Ethnicity - Distinct Patient Count |
| 71 | Deceased | Vital Status - Distinct Patient Count |
| 389 | Alive | Vital Status - Distinct Patient Count |
| 296 | White | Race - Distinct Patient Count |
| 2 | American Indian or Alaska Native | Race - Distinct Patient Count |
| 3 | Multiple | Race - Distinct Patient Count |
| 7 | Asian | Race - Distinct Patient Count |
| 1 | Other | Race - Distinct Patient Count |
| 143 | Black or African American | Race - Distinct Patient Count |
| 5 | Hispanic or Latino | Race - Distinct Patient Count |
| 3 | Decline/Refuse | Race - Distinct Patient Count |

7. The user selects the same patient set outlined but this time wants to see **distinct patient counts per encounters year** this time. The webservice call is: `select * from table(i2b2core.pat_aggr_i2b2_query_vw ('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET', 'ENCOUNTERS_PER_YEAR')) ;`

| ITEM_COUNT | ITEM_CODE | ITEM_GROUP |
|------------|-----------|--|
| 316 | 2015 | Encounters Per Year - Distinct Patient Count |
| 303 | 2013 | Encounters Per Year - Distinct Patient Count |
| 103 | 2008 | Encounters Per Year - Distinct Patient Count |
| 214 | 2010 | Encounters Per Year - Distinct Patient Count |
| 188 | 2009 | Encounters Per Year - Distinct Patient Count |
| 247 | 2011 | Encounters Per Year - Distinct Patient Count |
| 347 | 2017 | Encounters Per Year - Distinct Patient Count |
| 323 | 2016 | Encounters Per Year - Distinct Patient Count |
| 279 | 2012 | Encounters Per Year - Distinct Patient Count |
| 338 | 2018 | Encounters Per Year - Distinct Patient Count |
| 303 | 2014 | Encounters Per Year - Distinct Patient Count |

8. User wants to get **fact counts for all the code families on the patients in this query set**. The webservice call is: `select * from table(i2b2core.pat_aggr_i2b2_query_vw ('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET', 'CODE_PREFIX_FAMILY')) ;`

| ITEM_COUNT | ITEM_CODE | ITEM_GROUP |
|------------|-----------|---------------------------------------|
| 75463 | CPT | Number of facts in this concept group |
| 433006 | ICD10-CM | Number of facts in this concept group |
| 177470 | ICD9 | Number of facts in this concept group |
| 76645 | ICDADOC | Number of facts in this concept group |
| 1108 | SRGSP | Number of facts in this concept group |
| 28794 | VITALS | Number of facts in this concept group |
| 62705 | WT | Number of facts in this concept group |
| 356 | NOCODE | Number of facts in this concept group |
| 2232 | ALLG | Number of facts in this concept group |
| 66333 | MEDSVC | Number of facts in this concept group |
| 624905 | RXNORM | Number of facts in this concept group |
| 392 | SNMCT | Number of facts in this concept group |
| 15932 | SNOMED | Number of facts in this concept group |
| 1108 | SRGET | Number of facts in this concept group |
| 982 | PWNRA | Number of facts in this concept group |
| 361 | SRGIMST | Number of facts in this concept group |
| 340 | AGHI | Number of facts in this concept group |
| 134 | PWNRSR | Number of facts in this concept group |
| 5271 | TR | Number of facts in this concept group |
| 2 | UABCCPIG | Number of facts in this concept group |
| 373015 | BP | Number of facts in this concept group |
| 84539 | INSURANCE | Number of facts in this concept group |
| 1156851 | UABLABS | Number of facts in this concept group |
| 44 | TRNSCHT | Number of facts in this concept group |
| 128 | REDCap | Number of facts in this concept group |
| 1235 | APRDRG | Number of facts in this concept group |
| 183831 | PAIN | Number of facts in this concept group |
| 10732 | PWRPLAN | Number of facts in this concept group |
| 3001 | ICD10-PCS | Number of facts in this concept group |
| 474 | PNED | Number of facts in this concept group |
| 39 | ICD9-CM | Number of facts in this concept group |
| 27752 | SN | Number of facts in this concept group |
| 24412 | SNMCT | Number of facts in this concept group |

9. User wants to see a **complete aggregate breakdown of SNOMED codes**, using: `select * from table(i2b2core.pat_aggr_i2b2_query_vw('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET', 'SNOMED'))`

| ITEM_COUNT | ITEM_CODE | ITEM_GROUP |
|------------|------------------|---|
| 8 | SNOMED:161523006 | H/O: respiratory disease |
| 46 | SNOMED:161891005 | Backache |
| 2 | SNOMED:43724002 | Chill |
| 212 | SNOMED:55822004 | Hyperlipidemia |
| 234 | SNOMED:82971005 | Impaired mobility |
| 2 | SNOMED:89820008 | Closed intertrochanteric fracture |
| 4 | SNOMED:67782005 | Adult respiratory distress syndrome |
| 4 | SNOMED:165019004 | Lung function testing abnormal |
| 34 | SNOMED:233703007 | Diffuse parenchymal lung disease |
| 10 | SNOMED:697911002 | Pulmonary hypertension due to chronic obstructive pulmonary disease |
| 48 | SNOMED:29857009 | Chest pain |
| 2 | SNOMED:191601008 | Single major depressive episode, mild |
| 686 | SNOMED:238136002 | Morbid obesity |
| 46 | SNOMED:34713006 | Vitamin D deficiency |
| 12 | SNOMED:441481004 | Chronic systolic heart failure |
| 38 | SNOMED:305058001 | Patient encounter status |
| 2 | SNOMED:16973004 | Claudication |
| 20 | SNOMED:59282003 | Pulmonary embolism |
| 74 | SNOMED:233703007 | Interstitial lung disease |

10. User looks at the list from #7 and wants to see **all the SNOMED codes, with details (not aggregates)**, for the patient set. Webservice call is: `select * from table(i2b2core.get_facts_i2b2_query_vw ('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET', 'SNOMED'))`

| I2B2_PATIENT_ID | I2B2_ENCOUNTER_ID | FACT_START_DATE | FACT_END_DATE | CONCEPT_CD | CONCEPT_DESCRIPTION | FACT_VALUE | MODIFIER_CD |
|-----------------|-------------------|-----------------|---------------|------------------|--|---------------|-------------------|
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:131114008 | Decreased vitamin D | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:131114008 | Decreased vitamin D | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:160932005 | Financial problem | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:419808006 | Finding related to health insurance issues | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:160932005 | Financial problem | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:419808006 | Finding related to health insurance issues | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 09/16/2015 | (null) | SNOMED:161800001 | H/O: hysterectomy | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 09/16/2015 | (null) | SNOMED:161800001 | H/O: hysterectomy | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:165474009 | Microcytosis | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:165474009 | Microcytosis | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:16711001 | Effusion of joint of hand | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 09/16/2015 | (null) | SNOMED:239792003 | Seronegative rheumatoid arthritis | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:16711001 | Effusion of joint of hand | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 09/16/2015 | (null) | SNOMED:239792003 | Seronegative rheumatoid arthritis | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:201841000 | Primary gonarthrosis, bilateral | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:201841000 | Primary gonarthrosis, bilateral | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:202381003 | Knee joint effusion | No fact value | DXTYPE:MEDICAL |
| 323213 | 10702357 | 01/01/1900 | (null) | SNOMED:202381003 | Knee joint effusion | No fact value | CONFIRM:CONFIRMED |
| 323213 | 10702357 | 09/16/2015 | (null) | SNOMED:238136002 | Morbid obesity | No fact value | DXTYPE:MEDICAL |

11. The user wants to see **ALL data – all facts, that is** – on their patient set. This is done with the same call as for #8 but you leave the last parameter as an empty string (meaning 'NO FILTER ON FACTS'). The webservice call is: `select * from table(i2b2core.get_facts_i2b2_query_vw ('rdalej', 'i2b2lds', 29706, 'I2B2_PATIENT_SET', ''))`

| I2B2_PATIENT_ID | I2B2_ENCOUNTER_ID | FACT_START_DATE | FACT_END_DATE | CONCEPT_CD | CONCEPT_DESCRIPTION |
|-----------------|-------------------|-----------------|---------------|---------------------------|--|
| 323213 | 10702357 | 09/16/2015 | 12/31/2100 | ALLG:d03428 | Lortab |
| 323213 | 10702357 | 11/10/2016 | 12/31/2100 | ALLG:d03826 | TraMADol Hydrochloride ER |
| 323213 | 11391774 | 09/16/2015 | 09/16/2015 | BP:DiastolicBloodPressure | Diastolic Blood Pressure |
| 323213 | 11391774 | 09/16/2015 | 09/16/2015 | BP:SystolicBloodPressure | Systolic Blood Pressure |
| 323213 | 20884687 | 04/28/2016 | (null) | CPT:99214 | Office or other outpatient visit for the eval |
| 323213 | 20884687 | 04/28/2016 | 04/28/2016 | BP:DiastolicBloodPressure | Diastolic Blood Pressure |
| 323213 | 26242946 | 08/04/2016 | 08/04/2016 | BP:DiastolicBloodPressure | Diastolic Blood Pressure |
| 323213 | 86596242 | 11/10/2016 | 11/10/2016 | BP:DiastolicBloodPressure | Diastolic Blood Pressure |
| 323213 | 86596242 | 11/10/2016 | 11/10/2016 | BP:SystolicBloodPressure | Systolic Blood Pressure |
| 323213 | 118039113 | 02/16/2017 | 02/16/2017 | BP:DiastolicBloodPressure | Diastolic Blood Pressure |
| 323213 | 118039113 | 02/16/2017 | 02/16/2017 | BP:SystolicBloodPressure | Systolic Blood Pressure |
| 323213 | 150517606 | 05/25/2017 | 05/25/2017 | BP:DiastolicBloodPressure | Diastolic Blood Pressure |
| 323213 | 150517606 | 05/25/2017 | 05/25/2017 | BP:SystolicBloodPressure | Systolic Blood Pressure |
| 323213 | 20884687 | 04/28/2016 | 04/28/2016 | BP:SystolicBloodPressure | Systolic Blood Pressure |
| 323213 | 26242946 | 08/04/2016 | 08/04/2016 | BP:SystolicBloodPressure | Systolic Blood Pressure |
| 323213 | 26244295 | 08/04/2016 | (null) | CPT:73130 | Radiologic examination, hand; minimum of 3 vi. |
| 323213 | 26244295 | 08/04/2016 | (null) | CPT:73130 | Radiologic examination, hand; minimum of 3 vi. |
| 323213 | 26244295 | 08/04/2016 | (null) | CPT:73562 | Radiologic examination, knee; 3 views |
| 323213 | 26244295 | 08/04/2016 | (null) | CPT:73562 | Radiologic examination, knee; 3 views |