

function f_search(character varying)

This function takes a character input \$search_string and returns a table containing ICD codes where the ICD code is a pattern match for \$search_string.

```
select f_search('diabet')
```

returns

```
"(E10,E10,"Insulin-dependent diabetes mellitus)"
"(E10.0,E100,"Insulin-dependent diabetes mellitus With coma)"
"(E10.1,E101,"Insulin-dependent diabetes mellitus With ketoacidosis)"
"(E10.2,E102,"Insulin-dependent diabetes mellitus With renal complications)"
"(E10.3,E103,"Insulin-dependent diabetes mellitus With ophthalmic complications)"
"(E10.4,E104,"Insulin-dependent diabetes mellitus With neurological complications)"
```

...

```
SELECT f_search(
  'L%melan'
);
```

```
"(L81.4,L814,"Other melanin hyperpigmentation)"
"(L81.6,L816,"Other disorders of diminished melanin formation)"
```

The actual text searched is the concatenated code, alt code, description, modifier_4 and modifier_5.

```
-- Function: f_search(character varying[])
```

```
-- DROP FUNCTION f_search(character varying[]);
```

```
CREATE OR REPLACE FUNCTION f_search(IN search_string character varying)
  RETURNS TABLE(code character varying, alt character varying,
description text) AS
$BODY$
```

```
SELECT
  t_icd10.code as code,
  t_icd10.alt_code as alt,
  t_icd10.description || case when modifier_4>' ' then ' ' else '' end ||
modifier_4 || case when modifier_5>' ' then ' ' else '' end || modifier_5
as description
```

```
FROM
  public.t_icd10
```

```
WHERE
  t_icd10.code || cast(' ' as text) || t_icd10.alt_code || cast(' ' as
text) || t_icd10.description || ' '::text || modifier_4 || ' '::text ||
modifier_5::text like '%' || $1::text || '%'
```

```
$BODY$
```

```
LANGUAGE sql VOLATILE
COST 100
ROWS 1000;
ALTER FUNCTION f_search(character varying)
  OWNER TO accelrtdb;
COMMENT ON FUNCTION f_search(character varying) IS 'search function,
accepts a string which may contain wildcards as search string,pre/appends
% and then looks for matches in the database
```

Note - the function could be susceptible to SQL injection attacks and the search string will need to be cleaned of SQL reserved words in future versions';