

SQL fyrirspurnir

Lýsing	Skipanaform	Dæmi
Allir dálkar og línur	<code>SELECT * FROM tafla;</code>	<code>SELECT * FROM felagar;</code>
Velja línur	<code>SELECT dálk(ar) FROM tafla WHERE skilyrði;</code>	<code>SELECT * from felagar WHERE postnr = '112'</code>
Röðun úttaks	<code>SELECT dálk(ar) FROM tafla ORDER BY dálk(ar) [DESC];</code>	<code>SELECT * FROM felagar ORDER BY stig DESC, innng_ar;</code>
Takmarka fjölda lína	<code>SELECT dálk(ar) FROM tafla ORDER BY dálk(ar) LIMIT tala [OFFSET tala];</code>	<code>SELECT * FROM felagar ORDER BY stig DESC LIMIT 3 OFFSET 3;</code>
Reglulegar segðir	<code>SELECT dálk(ar) FROM tafla WHERE dálk LIKE 'reg. segð';</code>	<code>SELECT * FROM sumarhus WHERE stadur LIKE '%vatn%';</code>
Samsöfnun gagna	<code>SELECT samsöfnun(dáلكur) FROM tafla;</code>	<code>SELECT avg(stig) FROM felagar;</code>
Hópun gagna	<code>SELECT dálk, samsöfnun(dáلك) FROM tafla GROUP BY dáلكur;</code>	<code>SELECT postnr, avg(stig) FROM felagar GROUP BY postnr;</code>
Velja úr hópa	<code>SELECT dálk, samsöfnun(dáلك) FROM tafla GROUP BY dáلكur HAVING skilyrði;</code>	<code>SELECT postnr, avg(stig) FROM felagar GROUP BY postnr HAVING count(*) > 1;</code>
Tenging	<code>SELECT dálk(ar) FROM tafla1 JOIN tafla2 ON skilyrði;</code>	<code>SELECT nafn, dags FROM felagar f JOIN leigur l ON f.fnr = l.fnr;</code>
Náttúruleg tenging	<code>SELECT dálk(ar) FROM tafla1 NATURAL JOIN tafla2;</code>	<code>SELECT nafn, dags FROM felagar NATURAL JOIN leigur;</code>
Undirfyrirspurnir: útkoman er ein tala	<code>SELECT dálk(ar) FROM tafla WHERE dáلكur = (fyrirspurn skilar tölu);</code>	<code>SELECT nafn, stig FROM felagar WHERE stig = (SELECT max(stig) FROM felagar);</code>
Undirfyrirspurnir: útkoman er mengi	<code>SELECT dálk(ar) FROM tafla WHERE dáلكur IN (fyrirspurn skilar mengi);</code>	<code>SELECT * FROM sumarhus WHERE husnr NOT IN (SELECT husnr FROM leigur);</code>
Vinstri ytri tenging	<code>SELECT dálk(ar) FROM tafla1 LEFT JOIN tafla2 ON skilyrði;</code>	<code>SELECT nafn, husnr, dags FROM felagar LEFT JOIN leigur ON felagar.fnr = leigur.fnr WHERE postnr < '170';</code>
Mengjaaðgerðir	<code>fyrirspurn1 {UNION INTERSECT EXCEPT} fyrirspurn2</code>	<code>SELECT fnr FROM felagar WHERE postnr = '112' UNION SELECT fnr FROM leigur GROUP BY fnr HAVING count(*) > 1;</code>

Aðrar SQL skipanir

<u>Lýsing</u>	<u>Skipanaform</u>	<u>Dæmi</u>
Búa til töflu	<pre>CREATE TABLE tafla (dálk1 tag, dálk2 tag, ...);</pre>	<pre>CREATE TABLE felagar (fnr INTEGER, nafn CHAR(30), postnr CHAR(3), stig INTEGER, inng_ar INTEGER);</pre>
Eyða töflu	<pre>DROP TABLE [IF EXISTS] tafla;</pre>	<pre>DROP TABLE felagar;</pre>
Setja inn gögn	<pre>INSERT INTO tafla (dálk1, dálk2, ...) VALUES (gildi1, gildi2, ...);</pre>	<pre>INSERT INTO felagar (fnr, nafn, postnr, inng_ar) VALUES (99, 'Ari', '600', 2021);</pre>
Eyða gögnum	<pre>DELETE FROM tafla [WHERE skilyrði];</pre>	<pre>DELETE FROM sumarhus WHERE husnr = 1007;</pre>
Breyta gögnum	<pre>UPDATE tafla SET dálk = gildi, ... [WHERE skilyrði];</pre>	<pre>UPDATE felagar SET stig = stig - 10, postnr = '101' WHERE fnr = 45;</pre>
Búa til sýndartöflu	<pre>CREATE VIEW tafla AS fyrirspurn;</pre>	<pre>CREATE VIEW vip AS SELECT * FROM felagar WHERE stig > 400 AND inng_ar <= 2008;</pre>
Eyða sýndartöflu	<pre>DROP VIEW [IF EXISTS] tafla;</pre>	<pre>DROP TABLE vip;</pre>