

Heimadæmi 3 - Gagnasafnsfræði

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Dæmi 1

a

```
sqlite> select class, country from Classes where numGuns >=3;
```

class	country
Bismarck	Germany
Iowa	USA
Kongo	Japan
North Carolina	USA
Renown	Gt. Britain
Revenge	Gt. Britain
Tennessee	USA
Yamato	Japan

b

```
sqlite> select name as nafn from Ships where launched < 1929;
```

nafn
California
Haruna
Hiei
Kirishima
Kongo
Ramillies
Renown
Repulse
Resolution
Revenge
Royal Oak
Royal Sovereign
Tennessee

c

```
sqlite> select name from Ships where name like class;
```

name
Iowa
Kongo
North Carolina
Renown
Revenge
Tennessee
Yamato

d

```
sqlite> select name from Ships where name LIKE 'H%';
```

name
Haruna
Hiei

Dæmi 2

```
CREATE TABLE Product (  
    model VARCHAR(255) PRIMARY KEY,  
    maker VARCHAR(255),  
    type VARCHAR(255)  
);
```

```
CREATE TABLE PC (  
    model VARCHAR(255) PRIMARY KEY,  
    speed REAL,  
    ram INT,  
    hd INT,  
    price INT,  
    FOREIGN KEY (model) REFERENCES Product(model)  
);
```

```
CREATE TABLE Laptop (  
    model TEXT PRIMARY KEY,  
    speed REAL,  
    ram INT,  
    hd INT,  
    screen REAL,  
    price INT,  
    FOREIGN KEY (model) REFERENCES Product(model)  
);
```

```
CREATE TABLE Printer (  
    model VARCHAR(255) PRIMARY KEY,  
    speed REAL,  
    price INT,  
    FOREIGN KEY (model) REFERENCES Product(model)  
);
```

```

    model VARCHAR(255) PRIMARY KEY,
    color VARCHAR(255),
    type VARCHAR(255),
    price INT,
    FOREIGN KEY (model) REFERENCES Product(model)
);

```

Dæmi 3

a

```

SELECT MovieStar.name
FROM StarsIn, MovieStar
WHERE StarsIn.movieTitle LIKE 'Titanic' AND MovieStar.gender LIKE 'F';

```

b

```

SELECT starName
FROM StarsIn, Movie
WHERE StarsIn.movieTitle LIKE Movie.title
AND Movie.studioName LIKE 'Paramount' AND Movie.year = 1980;

```

c

```

SELECT presC
FROM Studio
WHERE name LIKE 'Paramount';

```

d

```

SELECT title
FROM Movie
WHERE length > (SELECT length FROM Movie WHERE title LIKE 'Star Wars');

```

e

```

SELECT name
FROM MovieExec
WHERE netWorth > (SELECT netWorth FROM MovieExec WHERE name LIKE 'George Lucas');

```