

GSF Midmisserispröf

1.

A	B	C	D
1	2	4	6
3	4	6	8
3	4	7	9

2. a, d, h, b

SQL: SELECT R.A, R.B, S.B, S.C, S.D FROM R, S
WHERE R.A < S.C AND R.B < S.D

3. @ BE | AC | mög. lyklar: ABE, CBE, DBE
D

⑥ ABE | CD | mög. lyklar: ABEF
F

4. CEG = ABC E GH ✓ BDG = ABC DE GH ✓
BFG = B EFGH × CGH = ABC E GH ×
ADG = ABC DE FGH ✓ ADE = ABC DE FGH ×
BED = B CDEF GH × ACG = ABC E GH ×

svar: a, b, e

5. @

	A	B	C	D
R ₁	a	∇ a	∇ a	a
R ₂	a	←		a
R ₃	a	a	a	a

lossless: ja //

⑥

	A	B	C	D
R ₁	a	∇ a	∇ a	
R ₂	a	a		a

lossless: ja

6. a, c, e, f

7. @ SELECT starName FROM MovieStar, StarsIn
WHERE movieTitle = 'Blade Runner' AND
starName = MovieStar.name AND gender = 'M';

⑥ SELECT starName FROM StarsIn, Movie
WHERE movieTitle = Movie.title AND studioName = 'MGM'
AND year = '2001';

③ SELECT MovieExec.name FROM MovieExec, Studio
WHERE cert = presc AND Studio.name = 'MGM';

④ SELECT title FROM Movie HAVING length >
(SELECT length FROM Movie);

⑤ SELECT name, MAX(length) FROM Movie, MovieExec
WHERE producerC = cert GROUP BY name.

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8.	Winner	Runs
	Bay Stars	3
	Buffaloes	7
	Dragons	8
	Golden Eagles	20
	Marines	8
	Swallows	10

9.	A	B	C	D	E
	100	x	50	Null	Null
	150	y	80	100	60
	150	y	80	100	50
	250	x	60	Null	Null
	Null	z	Null	250	30

10. 3NF: c og h
BCNF: h