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Question1:

select count(*) from (select distinct stars.star from stars, planets where stars.star = planets.star and name is not null) as s;

Result: count(*) = 4522

Question 2:

select distinct star from planets where (microlensing and timing) or (microlensing and imaging) or (microlensing and astrometry) or (imaging and timing) or (imaging and astrometry) or (timing and astrometry);

result: empty set

Question 3:

Assuming the question means the planet's radius must be between 10 and 20 (inclusive) times the Jupiter's radius, the query is

select name from planets where r >= 10 and r<=20;

result:

+-------------+

| name |

+-------------+

| KOI 2398.01 |

| KOI 2599.01 |

| KOI 3419.01 |

| KOI 3528.01 |

| KOI 3573.01 |

| KOI 3602.01 |

| KOI 3611.01 |

| KOI 3641.01 |

| KOI 3700.01 |

| KOI 3740.01 |

| KOI 3864.01 |

| KOI 3907.01 |

| KOI 4152.01 |

| KOI 4253.01 |

| KOI 4528.01 |

| KOI 48.01 |

| KOI 5034.01 |

| KOI 5058.01 |

| KOI 5129.01 |

| KOI 5243.01 |

| KOI 5317.01 |

| KOI 5335.01 |

| KOI 5797.01 |

| KOI 5906.01 |

| KOI 5976.01 |

| KOI 6109.01 |

| KOI 6165.02 |

| KOI 6235.01 |

| KOI 6250.01 |

| KOI 6251.01 |

| KOI 6311.01 |

| KOI 6326.01 |

| KOI 6906.01 |

| KOI 6933.01 |

| KOI 7482.01 |

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Question4:

select name from planets where r>1 and a<0.4;

result: 624 rows. I will show the first 20 rows to keep this answer concise.

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| name |

+------------+

| CoRoT-1 b |
| CoRoT-11 b |
| CoRoT-12 b |
| CoRoT-14 b |
| CoRoT-16 b |
| CoRoT-17 b |
| CoRoT-18 b |
| CoRoT-19 b |
| CoRoT-2 b |
| CoRoT-23 b |
| CoRoT-25 b |
| CoRoT-26 b |
| CoRoT-27 b |
| CoRoT-3 b |
| CoRoT-4 b |
| CoRoT-5 b |
| CoRoT-6 b |
| HAT-P-1 b |
| HAT-P-13 b |
| HAT-P-14 b |
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