select distinct color from species;

```
+--------+
| color  |
+--------+
| brown  |
| green  |
| blue   |
| tan    |
| red    |
| gray   |
| silver |
| orange |
| yellow |
+--------+
```

2. mysql> select name from dino,species where dino.sname=species.sname and cageID="WG" and color="green";

```
+------------+
| name       |
+------------+
| Bernadette |
| Howard     |
| Raj        |
| Stuart     |
+------------+
```

3. select distinct cageid from dino natural join species where color="blue";

```
+--------+
| cageid |
+--------+
| AV     |
| PZ     |
+--------+
```

4.select name from dino,species where dino.sname=species.sname and diet="carnivore";

```
+-----------+
| name      |
+-----------+
| Charles   |
| Mulcahy   |
| Hawkeye   |
| Bart      |
| Homer     |
| Elizabeth |
| Henry     |
| Margaret  |
```

| Sherman |
| BJ |
| Trapper |
+----------+

5. select name,sname,cageID,severity,description from injured_list,dino where dino.name=injured_list.dname;

+----------+------------------+--------+----------+---------------------------------------+
| name | sname | cageID | severity | description |
+----------+------------------+--------+----------+---------------------------------------+
Elizabeth	Tyrannosaurus Rex	WT	2	bunion on right foot - keep an eye on it
Ellie	Elasmosaurus	AQ	1	small cut on right front flipper
Sheldon	Diplodocus	WG	1	nothing - he is a hypochondriac
Harry	Triceratops	PZ	5	injury on his forehead
Ellie	Elasmosaurus	AQ	6	broken tailbone
+----------+------------------+--------+----------+---------------------------------------+

6. select name,sname,cageID from dino where gender = "female" and age ="adult" and cageID in(select cageID from dino where gender="male") and sname in (select sname from dino where gender="male");

+-----------+-------------------+--------+
| name | sname | cageID |
+-----------+-------------------+--------+
Amy	Diplodocus	WG
Bernadette	Apatosaurus	WG
Kirstin	Pteranodon	AV
Margaret	Tyrannosaurus Rex	WT
Meredith	Ankylosaurus	WP
Pam	Triceratops	WP
Penny	Brachiosaurus	WG
Phyllis	Pachycephalosaurus	WP
Priya	Brachiosaurus	WG
+-----------+-------------------+--------+

7. select name from dino where age ="baby" and cageID not in ('PZ');

+--------+
| name |
+--------+
| Maggie |
+--------+

8.mysql> select name from dino natural join species where diet ="herbivore" and cageID in(select distinct cageID from dino natural join species where diet="carnivore");

```
+---------+
| name    |
+---------+
| Klinger |
| Radar   |
+---------+
```

9. select name from species, dino, cage where species.sname=dino.sname and dino.cageID=cage.ID and locomotion="fly" and hasroof="no";

```
+------+
| name |
+------+
| Luna |
+------+
```

10.select name,cageID from dino group by cageID,name;

```
+------------+--------+
| name       | cageID |
+------------+--------+
| Bart       | AQ     |
| Ellie      | AQ     |
| Homer      | AQ     |
| Lisa       | AQ     |
| Maggie     | AQ     |
| Marge      | AQ     |
| Avi        | AV     |
| Kirstin    | AV     |
| KO         | AV     |
| Lindsey    | AV     |
| Matt       | AV     |
| Mitch      | AV     |
| Scott      | AV     |
| Dobby      | PZ     |
| Draco      | PZ     |
| Ginny      | PZ     |
| Harry      | PZ     |
| Hedwig     | PZ     |
| Hermione   | PZ     |
| Luna       | PZ     |
| Neville    | PZ     |
| Ron        | PZ     |
| Amy        | WG     |
| Bernadette | WG     |
| Dan        | WG     |
| Howard     | WG     |
| Kripke     | WG     |
```

Leonard	WG
Penny	WG
Priya	WG
Raj	WG
Sheldon	WG
Stuart	WG
Angela	WP
Cera	WP
Dwight	WP
Jan	WP
Jim	WP
Kevin	WP
Meredith	WP
Michael	WP
Oscar	WP
Pam	WP
Phyllis	WP
Roy	WP
Ryan	WP
Stanley	WP
Stephanie	WP
BJ	WT
Charles	WT
Elizabeth	WT
Frank	WT
Hawkeye	WT
Henry	WT
Klinger	WT
Margaret	WT
Mulcahy	WT
Radar	WT
Sherman	WT
Trapper	WT

```
+------------+--------+
```

11.select sname from (select sname,count(*) as total from (select sname,cageid from dino where cageid in(select distinct cageid from dino where sname="triceratops") group by sname,cageid)as s group by sname) as y where total>1;

```
+--------------------+
| sname              |
+--------------------+
| Ankylosaurus       |
| Iguanodon          |
| Maiasaurus         |
| Pachycephalosaurus |
```

| Stegosaurus |
| Triceratops |
+--------------------+
12. select distinct sname from dino natural join species where wt= (select MAX(wt) as 'max' from dino natural join species where wt_unit="tons");
+------------+
| sname |
+------------+
| Diplodocus |
+------------+
13.select cageid, (capacity-num) as extra_room from(select distinct num,cageid,capacity from cage inner join (select num,cageid from (select cageid, count(*)as num from dino group by ca
geid) as f) as l on l.cageid=id) as p;
+--------+------------+
| cageid | extra_room |
+--------+------------+
AQ	94
AV	93
PZ	41
WG	239
WP	985
WT	88
+--------+------------+
14. select cageid from (select max(a) as m from (select cageid,avg(danger_level) as a from dino natural join species group by cageid) as t) as s, (select cageid, avg(danger_level) as a f
rom dino natural join species group by cageid)as u where s.m=u.a;
+--------+
| cageid |
+--------+
| WT |
+--------+
15.select sum(num) as rides_per_week from(select dname,(numpeople * count) as num from capacity natural join(select dname, count(dname) as count from schedule natural join capacity group by dname) as s group by dname,num)as f;
+----------------+
| rides_per_week |
+----------------+
| 224 |
+----------------+
16. insert into injured_list values ('Sheldon', '6', 'broken nose');
Query OK, 1 row affected (0.00 sec)
mysql> select * from injured_list;

```
+-----------+----------+----------------------------------------+
| dname     | severity | description                            |
+-----------+----------+----------------------------------------+
| Elizabeth |        2 | bunion on right foot - keep an eye on it |
| Ellie     |        1 | small cut on right front flipper       |
| Sheldon   |        1 | nothing - he is a hypochondriac        |
| Harry     |        5 | injury on his forehead                 |
| Ellie     |        6 | broken tailbone                        |
| Sheldon   |        6 | broken nose                            |
+-----------+----------+----------------------------------------+
```

17. delete from schedule where dname in (select dname from injured_list where severity>4);

Query OK, 2 rows affected (0.00 sec)

mysql> select * from schedule;

```
+-------+------+-----------+
| dname | day  | time      |
+-------+------+-----------+
| Dan   | tue  | morning   |
| Dan   | thu  | morning   |
| Penny | mon  | afternoon |
| Pam   | wed  | morning   |
| Ron   | fri  | morning   |
| Ginny | fri  | morning   |
| Scott | thu  | afternoon |
| Matt  | thu  | afternoon |
| Penny | wed  | afternoon |
| Pam   | fri  | morning   |
| Ron   | fri  | afternoon |
| Ginny | fri  | afternoon |
| Scott | tue  | afternoon |
| Matt  | tue  | afternoon |
+-------+------+-----------+
```

14 rows in set (0.01 sec)