Table listing what labs are in each building.
 SELECT BUILDING.BUILDING_ID, LAB_ID FROM BUILDING, LABS WHERE LABS.BUILDING ID = BUILDING.BUILDING ID;

+-----+
6 rows in set (0.01 sec)

 Show how many pieces of equipment are in each lab. select LAB_ID, count(EQUIP_ID) as 'Number of Equipment' FROM EQUIPMENT GROUP BY LAB_ID;

+----+

| LAB_ID | Number of Equipment |

+-----+

| 002 | 6 | | 003 | 5 | | 004 | 6 |

| 005 | 6 | | 006 | 5 |

+____+

6 rows in set (0.00 sec)

3. List the make and model of each computer in a specific lab. select computer.equip_make,computer.equip_model from computer,equipment where computer.computer id=equipment.computer id and lab id = 001;

+-----+

| equip_make | equip_model

+-----+ | Dell | Latitude D630 |

| Dell | Latitude D630 |

| Dell | Latitude E6410 |

```
| Dell
          | Latitude E6410 |
  +----+
  4 rows in set (0.00 \text{ sec})
4. List what classes are held in a specific lab.
   SELECT CLASS ID FROM CLASS WHERE LAB ID = 001;
  +----+
  | CLASS ID |
  +----+
  | 32729 |
  | 33718 |
  +----+
  2 rows in set (0.01 \text{ sec})
5. Table of Managers/students in charge of a lab
   SELECT EMP_FNAME, EMP_LNAME, EMPLOYEE.EMPLOYEE_ID FROM
   EMPLOYEE, LABS WHERE LABS.EMPLOYEE ID = EMPLOYEE.EMPLOYEE ID
   AND LAB ID = 002;
  +----+
  | EMP FNAME | EMP LNAME | EMPLOYEE ID |
  +----+
  | Cathy | Neal | 10109 |
  +----+
   1 row in set (0.00 sec)
6. Table displaying which departments are using a lab
   SELECT DEPARTMENT ID FROM LABS WHERE LAB ID = 004;
  +----+
  | DEPARTMENT ID |
  +----+
  MA |
  +----+
   1 row in set (0.00 \text{ sec})
7. Number of students in a class for a lab
   select count(stu id ) as 'Number of Students in the Class' from attends, class, labs where
```

class.class id=attends.class id and labs.lab id=class.lab id and class.class id = 32728

and class.lab id = 003;

8. Schedule of when a lab is occupied by a class select class days, class start time, class end time from class;

```
+----+
| class_days | class_start_time | class_end_time |
| MWF
         08:00:00
                     | 09:00:00
| MWF
         | 09:30:00
                     | 10:50:00
| TH
       02:00:00
                   | 03:50:00
| MWF
         | 02:00:00
                    | 03:15:00
| MWF
         | 12:30:00
                     | 01:50:00
| MWF
         | 02:00:00
                     | 03:20:00
+----+
6 rows in set (0.00 \text{ sec})
```

9. List of when each lab was last updated

SELECT LAB_ID, DATE_UPDATED FROM LABS;
+-----+
| LAB_ID | DATE_UPDATED |
+-----+
001	NULL
002	2016-05-25
003	2017-07-26
004	NULL
005	NULL
006	2015-02-16
+-----+

10. List of employees that work for ITS

6 rows in set (0.00 sec)

SELECT EMP FNAME, EMP LNAME, EMPLOYEE ID FROM EMPLOYEE WHERE DEPARTMENT ID LIKE '%ITS%'; +----+ | EMP FNAME | EMP LNAME | EMPLOYEE ID | +----+ | Alvarez | 10101 Van Joan | Mason | 10102 | Garry | Clarke | 10103 | Celia | Alvarez | 10104 | Evelyn | Guzman | 10105 | Cathy | Neal | 10109 +----+ 6 rows in set (0.00 sec)11. Display layout type of each lab SELECT LAB ID, LAYOUT TYPE FROM LABS; +----+ | LAB ID | LAYOUT TYPE | +----+ | 001 | Rows | 002 | Rows | 003 | Rows | 004 | Rows | 005 | U-Shape | 006 | U-Shape +----+ 6 rows in set (0.01 sec)12. List of equipment in need of repair SELECT * FROM PROBLEMS GROUP BY EQUIP ID; +----+ | ERROR ID | EQUIP ID | +----+ | 152 | 1001 | 501 | 1024 | 452 | 1026 | 1027 | 256

| 256

| 1033 +----+ 13. Table of software installed on each computer

SELECT SOFTWARE_DESCRIPT, SOFTWARE.SOFTWARE_ID,
COMPUTER.COMPUTER_ID FROM SOFTWARE, INSTALLED, COMPUTER
WHERE SOFTWARE.SOFTWARE_ID = INSTALLED.SOFTWARE_ID AND
COMPUTER.COMPUTER_ID = INSTALLED.COMPUTER_ID
ORDER BY COMPUTER.COMPUTER_ID:

```
| SOFTWARE DESCRPT
                   |SOFTWARE ID|COMPUTER ID|
+-----+
| Word 2016
                 | WRD16 | 0000001 |
| Windows 10 OS
                  | WIN10 | 0000001
| Eclipse Oxygen
                  | ECOXY
                            0000001
| Windows 10 OS
                  | WIN10
                            0000002
| AutoDesk Inventor Professional 2017 | AIV17 | 0000002
              | WIN10 | 0000003 |
| Windows 10 OS
| Eclipse Oxygen
                  | ECOXY | 0000003
| Apple iTunes | APITS
                          | 0000004 |
| Matrix Laboratory aka MatLab | MATLB
                               | 0000004
| Python 3.6
                 | PY3.6 | 0000004 |
| AutoDesk Inventor Professional 2017 | AIV17 | 0000005
| Windows 10 OS
                  | WIN10 | 0000005 |
| MYSQL for SQL programming | MYSQL | 0000006
+-----
14 rows in set (0.01 sec)
```

14. Display the errors that are occurring on all the equipment in a particular lab.

SELECT ERROR.ERROR_ID, ERROR_DESCRIPT, PROBLEMS.EQUIP_ID FROM ERROR, PROBLEMS, EQUIPMENT WHERE EQUIPMENT.EQUIP_ID = PROBLEMS.EQUIP_ID AND ERROR.ERROR_ID = PROBLEMS.ERROR_ID AND LAB_ID = '005';

```
| 452 | Printer printing strangely | 1027 | | 501 | Projector projecting poor image quality | 1024 | 501 | Projector projecting poor image quality | 1027 +-----+ 7 rows in set (0.01 sec)
```

15. Show all the students that have a class in a specific lab.

SELECT STUDENT.STU_ID, STU_FNAME, STU_LNAME FROM STUDENT, ATTENDS,

CLASS, LABS WHERE STUDENT.STU_ID = ATTENDS.STU_ID AND ATTENDS.CLASS_ID =

CLASS.CLASS_ID AND CLASS.LAB_ID = LABS.LAB_ID AND LABS.LAB_ID = 001;

```
+-----+
| STU_ID | STU_FNAME | STU_LNAME |
+-----+
| 3465524 | Elisedd | Rozalija |
| 3664415 | Samhuel | Haf |
| 3321154 | Superfly | Steel |
| 3465524 | Elisedd | Rozalija |
| 3485569 | Kool | Dragon |
| 3552251 | Mariusz | Mila |
+-----+
6 rows in set (0.01 sec)
```