Homework 3

# Text Description automatically generatedQuestion 3.a

SELECT name

FROM inode

WHERE type = "FILE"

    AND mtime = (

        SELECT max(mtime)

        FROM inode

        WHERE type = "FILE"

    );

# Text Description automatically generatedQuestion 3.b

SELECT name

FROM inode

WHERE permission LIKE "%6%";

# A screenshot of a computer Description automatically generated with low confidenceQuestion 3.c

SELECT i.id,

    i.name,

    b.numBytes

from inode as i,

    blocks as b

where type = "FILE"

    and i.id = b.inumber;

# Text Description automatically generatedQuestion 3.d

SELECT i.id,

    i.name,

    count(d.child) as num\_obj

from inode as i

    JOIN directory d ON i.id = d.parent

GROUP BY i.id,

    i.name;

# Text Description automatically generatedQuestion 3.e

SELECT i.name

FROM inode as i

    JOIN (

        SELECT parent,

            count(child) as num\_files

        from (

                SELECT d.parent,

                    d.child

                FROM directory as d

                    JOIN inode i on i.id = d.child

                WHERE type = "FILE"

            ) as t

        GROUP BY parent

        HAVING num\_files > 2

    ) as x ON i.id = x.parent;