1. Referring to the company database, write the relational notation for the current instance of the workson relation.

Instance

workson(*essn*, *pno*, hours)

1. Referring to the company database, write the relational notation for schema of the dependent relation.

Schema

DEPENDENT(*ESSN*, *DEPENDENTNAME*, SEX, BDATE, RELATIONSHIP)

1. Referring to the my guitar shop database, which of the database’s relations has the most attributes?

Addresses (8)

Suppliers (8)

Warehouses (8)

1. Referring to the my guitar shop database, which of the database’s relations has the fewest tuples?

Warehouses (3)

1. Referring to the company database, what is the primary key for the dependent relation?

Essn and Dependant\_Name (Both are underlined)

1. Referring to the company database, which relations have the same set of attributes for their default superkey and primary key?

DEPT\_LOCATIONS (All attributes (2) are primary keys)

1. Referring to the company database, which relations have a reasonable candidate key that is not its primary key?

PROJECT: Pname

DEPARTMENT: Dname

1. Referring to the company database, specify an update operation to the department relation that will violate a primary key constraint constraint.

Insert <’Lab’, ‘5’, ‘453453453’, ‘2023-06-28’> into DEPARTMENT (repeated Dnumber(PK))

1. Referring to the company database, what constraints to the database would be violated if Smith were deleted from the employee relation? Include the relevant relations and attributes in your answer.

If smith was deleted then it will result in a referential integrity violations because the tuples primary key Ssn involved is a foreign key in DEPENDENT and WORKS\_ON