1.3.3 -> Exposures . Overview of An exposure is a basic unit sour measures a policy's exposure to locs. It so the for the columnia of premium

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a criteria for Exposure bases
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- 1) Comportismed to expected lass
- 5) Historical Procedence

-> 1) Papartinal + expected lass

- -> The exposure basic chosen should be the deuter four ordibite to wast birect propositional relationship to the losses.

 At discovering, assuming all other recomes remain constant, the exposure less of a polloy of two exposures should be deuter that of a Conganille policy of a Single exposure.
- -1 E.2) The number of house years is a good exposure base for homeowners insurance ble the expected lass for one home insuran The super or the process loss for the same your insures for our year, while the expected loss for a home will also likely very by the amount of insurance prochasely the politication 3 out as direct. The appendix loss for a \$200,000 home would be accessfully twice that of a \$100,000 home would be accessfully twice that of a \$100,000 home. Thus, number of hosts years 3 a letter equipment base.
- -3 An exposure base that is proportional to the expected ball will be responsible to any change it exposure to rich. It is also easily inderstand for the insured.

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properties in the insured.

_) before the insured. "proportional", "surect proportional"

_) before the insured. "proportional", "surect proportional"

[ 10% ? in exposure => 10% ? expected bases
```

-> The exposure been chosen should be proceeded, meaning to showl be abtrictive a easy or inexpositive to obtain a versity. This customs that the exposure been can be consistently ancested. This process insureds a understander from intentionally ananiquations. Exposure included the fact that own bounds:

-> 7) Historical Meledence

- -3 Another criterian for a good exposure base is it should consider day propositing exposure base established who the industry. Buy Change in the exposure base should be concludy considered due to the filming Conjunt.
 - 1) for con result in substantial fluctuations in parameter for individual pollogicalders
 - 2) Ft requires a change in the poting algorithm, which away require significant adjustements to the conting systems of recovering
 - 3) It may necessitate Simificant data adjustments for fature rehowalking analyses, at those analyses typically rely an Several years of data

The table below shows some commonly used exposure bases for different lines of business.

Line of Business	Typical Exposure Bases
Personal Automobile	Earned Car Year
Homeowners	Earned House Year
Workers Compensation	Payroll
Commercial General Liability	Sales Revenue, Payroll, Square Footage, Number of Units
Commercial Property	Amount of Insurance Coverage
Professional Liability	Number of Professionals
Personal Articles Floater	Value of Item

-> Exemples it but one my explosion-joins

- permitted exposure base: Amount of insurance purchased or Reason not good: Not directly proportional to expected lass

-> Persual Asto

---- Ailes delan

-> -- + Activationly hand to summarine accumulated a subject to summary hazard

- And-oth 17-61 by

--- -> Difficult to track eccupity

- working compressation

-> ---> How worked

-> --- Concerns regarding transition; too costly to change from payroll

- Exposures for large commercial risks

- -> Coursestinate Exprises bases may be to totable for large commercial risks. As a result, resonancing for large commercial risks is when dim using the Coloning uncludge D buyes in rating - The initial prochase for a policy of determined by extinative the discharge account for each aspect as courses. Thus, instead of auditing the different exposure weapongs for each conveyor at the land of the publicy term, a proxy successed to assistant the encoul change by Egypque to Loss.
 - 3) bis-rated composite rating -3 the previous for a policy is determined bises on the Individual PIK's historical lass experience, rather than using a policy experience and the individual providual hospital experience are the PIK
- -> there wellooks will be discussed :- a lower section

-> Fram quistins

- Front- Common econ questions require:
 - 1) Deplating a describing expression bases as used in the responsible property
 - 2) Evaluating + Selecting the appropriate exposure base for a given screens in the retempting process (e.g specials (im of business or use case)
- -3 Bestuple -3 An interact company is considering charging in copolour base for warrens comp from purpose to the or employers.

 Evolution the purity of their sharps based on each of the three Criterian for a good expense base.

-> 1) Propurtional to expected loss

o black amployees -> Naffacts (labor terquency, and most severity. Nove Ompologies amount pains, but the size of claims doesn't change - payors -> Retects both frequency (were completes) + severity (Ligher wages land to larger claims). Therefore, payors has a stranger celescrating w/ Expected 165)

-) --- - (on be practical se Companies montole accurate records, but issues can arise u) counting part-sim or seasonal workers -> = --> Easy to writy -1 tex forms (e.s w-2s), and auditing processes are already in place, waisoling pulpeds were straightformard to challenger

-3) Historical precedence

- > ---> Switching would require costs system radates t may lead to promin fluctuations due to loss returble lasstrated data ---- Has been used for a long state in workers comp, on/ escalabled systems of data supervising it
- = payrell is a bitter exposur base ble it better reflects expected loss , is easier to verify, a avoids distriptions due to its historical use.

 Theorem, it is not recommended to switch to the number of employees