

Part A

UDFYear(Date) → This function returns the year part of the date.

UDFStatus(Status) → This function returns +1 if Status is Rejected. Otherwise, -1.

```
SELECT JobID, COUNT(*)
FROM Offers
WHERE UDFYear(OfferDate)=2024
GROUP BY JobID
HAVING SUM(UDFStatus(Status)) >0 AND COUNT(*)>=10;
```

Part B

UDFHasNoContract(ContractID) → This function returns +1 if ContractID is None. Otherwise, 0.

```
JoinJobPostingsOffers =
SELECT OfferID, Title, Country, UDFYear(PublicationDate)
FROM JobPostings, Offers
WHERE JobPostings.JobID = Offers.JobID
      AND UDFYear(PublicationDate)>=2000
      AND Status='Accepted'
```

```
SelectedTitleCountryYear =
SELECT Title, Country, Year
FROM JoinJobPostingsOffers LEFT OUTER JOIN Contracts ON
      JoinJobPostingsOffers.OfferID=Contracts.OfferID
GROUP BY Title, Country, Year
HAVING SUM(UDFHasNoContract(ContractID))/COUNT(*)>0.5
```

```
SELECT Title, Country
FROM SelectedTitleCountryYear
HAVING COUNT(*)>=3
```