|  |  |
| --- | --- |
| **CHECK POINT 1** |  |
| **Capstone Project No :** | **3** |
| **Capstone No :** | **3** |
| **Batch Name :** | **D** |
| **Group No :** | **3** |
| **Group Members :**   |  | | --- | | **Pavan Kumar Reddy, Uchala** | | **Vani, Unnam** | | **Vasanthi, Burada** | | **Veera Durgesh, Telu Naveen** | | **Sourav, Das** | |  |

**STAGE 1:**

1. **Construct an ER-Diagram for the above-mentioned Requirement**

**Diagram

Description automatically generated**

**2) Construct Tables as per the ER-Diagram.**

**REGION\_LOCATION\_MAPPING**

CREATE TABLE "REGION\_LOCATION\_MAPPING"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"REGION\_ID" VARCHAR2(50),

"LOCATION\_ID" VARCHAR2(50),

PRIMARY KEY ("ID")

USING INDEX ENABLE

)

**DOMICILE\_MASTER**

CREATE TABLE "DOMICILE\_MASTER"( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"DOMICILE\_ID" VARCHAR2(50),

"DOMICILE\_NAME" VARCHAR2(100),

PRIMARY KEY ("ID")

USING INDEX ENABLE

**HR\_HIRING\_DETAILS\_TRANSACTION**

CREATE TABLE "HR\_HIRING\_DETAILS\_TRANSACTION"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"SNO" NUMBER,

"CANDIDATE\_REF" NUMBER,

"DOJ\_EXTENDED" VARCHAR2(50),

"DURATION\_TO\_ACCEPT\_OFFER" NUMBER,

"NOTICE\_PERIOD" NUMBER,

"OFFERED\_BAND" VARCHAR2(50),

"PERCENT\_HIKE\_EXPECTED\_IN\_CTC" NUMBER,

"PERCENT\_HIKE\_OFFERED\_IN\_CTC" NUMBER,

"PERCENT\_DIFFERENCE\_CTC" NUMBER,

"JOINING\_BONUS" VARCHAR2(50),

"CANDIDATE\_RELOCATE\_ACTUAL" VARCHAR2(50),

"GENDER" VARCHAR2(50),

"CANDIDATE\_SOURCE" VARCHAR2(50),

"REX\_IN\_YRS" NUMBER,

"LOCATION\_ID" VARCHAR2(50),

"POSTAL\_CODE" NUMBER,

"AGE" NUMBER,

"LOB\_ID" NUMBER,

"DOMICILE\_ID" VARCHAR2(50),

PRIMARY KEY ("ID")

USING INDEX ENABLE

**INTERVIEW\_DATES**

CREATE TABLE "INTERVIEW\_DATES"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"CANDIDATE\_REF" NUMBER,

"DATE\_OF\_INTERVIEW" DATE,

PRIMARY KEY ("ID")

USING INDEX ENABLE

)

**LOCATION\_MASTER**

CREATE TABLE "LOCATION\_MASTER"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"LOCATION\_ID" VARCHAR2(50),

"LOCATION" VARCHAR2(50),

PRIMARY KEY ("ID")

USING INDEX ENABLE

)

**REGION\_MASTER**

CREATE TABLE "REGION\_MASTER"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"REGION\_ID" VARCHAR2(50),

"REGION\_NAME" VARCHAR2(100),

PRIMARY KEY ("ID")

USING INDEX ENABLE

)

**POSTAL\_CODE\_MASTER**

CREATE TABLE "POSTAL\_CODE\_MASTER"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"POSTAL\_CODE" NUMBER,

"LOCATION\_ID" VARCHAR2(50),

PRIMARY KEY ("ID")

USING INDEX ENABLE

**LOB\_MASTER**

CREATE TABLE "LOB\_MASTER"

( "ID" NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE NOT NULL ENABLE,

"LOB\_ID" NUMBER,

"LOB" VARCHAR2(50),

PRIMARY KEY ("ID")

USING INDEX ENABLE

)

|  |
| --- |
| **HR\_Hiring\_details\_transaction** |
| Sno |
| Candidate\_Ref PK |
| DOD\_Extended |
| Duration\_to\_accept\_offer |
| Notice\_Period |
| Offered\_Band |
| Percent\_hike\_expected\_in\_CTC |
| Percent\_hike\_offered\_in\_CTC |
| Percent\_difference\_CTC |
| Joining\_Bonus |
| Candidate\_relocate\_actual |
| Gender |
| Candidate\_Source |
| Rex\_in\_Yrs |
| Location\_ID PK |
| Postal\_Code PK |
| Age |
| LOB\_Id PK |
| Domicile\_Id PK |

|  |
| --- |
| Joining\_Status |
| Candidate\_Ref FK |
| Status |

|  |
| --- |
| Domicile\_Master |
| Domicile\_ID FK |
| Domicile\_Name |

**3) Identify the relationships between tables and use appropriate standards for the same where applicable**

|  |
| --- |
| Interview\_Dates |
| Candidate\_Ref FK |
| Date\_of\_Interview |

|  |
| --- |
| Location\_Master |
| Location\_ID FK |
| Location |

|  |
| --- |
| Region\_Master |
| Region\_ID FK |
| Region\_Name |

|  |
| --- |
| LOD\_Master |
| LOB\_Id FK |
| LOB |

|  |
| --- |
| Region\_Location\_Mapping |
| Region\_ID PK |
| Location\_ID fk |

|  |
| --- |
| Postal\_Code\_Master |
| Postal\_Code FK |
| Location\_ID FK |

1. **Insert the appropriate data into the identified tables from the sample dataset provided.**

**REGION\_LOCATION\_MAPPING**

INSERT INTO REGION\_LOCATION\_MAPPING (REGION\_ID, LOCATION\_ID) VALUES('R1','L001');

**DOMICILE\_MASTER**

INSERT INTO DOMICILE\_MASTER (DOMICILE\_ID, DOMICILE\_NAME) VALUES('D12','Delhi');

**HR\_HIRING\_DETAILS\_TRANSACTION**

INSERT INTO HR\_HIRING\_DETAILS\_TRANSACTION(CANDIDATE\_REF,DOJ\_EXTENDED,DURATION\_TO\_ACCEPT\_OFFER,NOTICE\_PERIOD,OFFERED\_BAND,PERCENT\_HIKE\_EXPECTED\_IN\_CTC,PERCENT\_HIKE\_OFFERED\_IN\_CTC,PERCENT\_DIFFERENCE\_CTC,JOINING\_BONUS,CANDIDATE\_RELOCATE\_ACTUAL,GENDER,CANDIDATE\_SOURCE,REX\_IN\_YRS,LOCATION\_ID,POSTAL\_CODE,AGE,LOB\_ID,DOMICILE\_ID) VALUES(2110407,'Yes',14,30,'E2',-20.79,13.16,42.86,'No','No','Female','Agency',7,'L001',201301,34,1,'D6');

**INTERVIEW\_DATES**

INSERT INTO INTERVIEW\_DATES (CANDIDATE\_REF, DATE\_OF\_INTERVIEW) VALUES (2110407,1/8/2013)

**LOCATION\_MASTER**

INSERT INTO LOCATION\_MASTER (LOCATION\_ID,LOCATION) VALUES('L001','Noida')

**REGION\_MASTER**

INSERT INTO REGION\_MASTER(REGION\_ID,REGION\_NAME) VALUES('R1','North')

**POSTAL\_CODE\_MASTER**

INSERT INTO POSTAL\_CODE\_MASTER(POSTAL\_CODE,LOCATION\_ID) VALUES(201301,'L001')

**LOB\_MASTER**

INSERT INTO LOB\_MASTER(LOB\_ID,LOB) VALUES(1,'Lrs')

**STAGE 2:**

1. **Generate Info those candidates who have accepted offer and joining time is less then 30 days and candidates who are ready to re-locate.**

**Query:**

SELECT H.NOTICE\_PERIOD,

H.CANDIDATE\_RELOCATE\_ACTUAL, J.CANDIDATE\_REF,J.STATUS

FROM HR\_HIRING\_DETAILS\_TRANSACTION H

INNER JOIN JOINING\_STATUS J

ON H.CANDIDATE\_REF=J.CANDIDATE\_REF

WHERE NOTICE\_PERIOD < 30

AND NOT CANDIDATE\_RELOCATE\_ACTUAL='No'

AND STATUS='Joined'

**OUTPUT:**

**SAMPLE DATA and Original Printed 246**

|  |  |  |  |
| --- | --- | --- | --- |
| **NOTICE\_PERIOD** | **CANDIDATE\_RELOCATE\_ACTUAL** | **CANDIDATE\_REF** | **STATUS** |
| 0 | Yes | 2175323 | Joined |
| 0 | Yes | 2224426 | Joined |
| 0 | Yes | 2283257 | Joined |
| 0 | Yes | 2474614 | Joined |
| 0 | Yes | 3425046 | Joined |

1. **Generate Info those candidates who have accepted offer and also display list the candidates who have been offered and yet to accept the offer within 10 days.**

**Query:**

SELECT HR\_HIRING.NOTICE\_PERIOD, HR\_HIRING.DURATION\_TO\_ACCEPT\_OFFER, JOINING\_STATUS.STATUS FROM HR\_HIRING\_DETAILS\_TRANSACTION INNER JOIN JOINING\_STATUS

ON HR\_HIRING.CANDIDATE\_REF=JOINING\_STATUS.CANDIDATE\_REF

WHERE DURATION\_TO\_ACCEPT\_OFFER >=10

AND STATUS='Joined';

**OUTPUT:**

**SAMPLE DATA Original Printed 3659**

|  |  |  |
| --- | --- | --- |
| **NOTICE\_PERIOD** | **DURATION\_TO\_ACCEPT\_OFFER** | **STATUS** |
| 30 | 14 | Joined |
| 30 | 18 | Joined |
| 30 | 26 | Joined |
| 30 | 17 | Joined |
| 30 | 37 | Joined |
| 0 | 16 | Joined |
| 60 | 83 | Joined |
| 120 | 32 | Joined |

1. **Generate Info those candidates who are willing to join and the ECTC is 25% hike from their CTC.**

**Query:**

SELECT J.STATUS,H.CANDIDATE\_REF,H.Percent\_hike\_expected\_in\_CTC

FROM HR\_HIRING\_DETAILS\_TRANSACTION H

Inner JOIN JOINING\_STATUS J

ON H.CANDIDATE\_REF=J.CANDIDATE\_REF WHERE STATUS ='Joined' AND DOJ\_EXTENDED ='Yes'

AND Percent\_hike\_expected\_in\_CTC=25;

**OUTPUT**: **SAMPLE DATA Original Printed 119**

|  |  |  |
| --- | --- | --- |
| **STATUS** | **CANDIDATE\_REF** | **PERCENT\_HIKE\_EXPECTED\_IN\_CTC** |
| Joined | 2191237 | 25 |
| Joined | 2222936 | 25 |
| Joined | 2457480 | 25 |
| Joined | 2478695 | 25 |
| Joined | 2129601 | 25 |
| Joined | 2131733 | 25 |
| Joined | 2143770 | 25 |
| Joined | 2170273 | 25 |

1. **Generate Info those candidates who are willing to join and the ECTC is 25% hike from their CTC joining time is less then 30 days and candidates who are ready to re-locate and joining bonus is offered.**

**Query:**

SELECT H.CANDIDATE\_REF,H.JOINING\_BONUS,H.CANDIDATE\_RELOCATE\_ACTUAL,J.STATUS,H.NOTICE\_PERIOD,H.DOJ\_EXTENDED

FROM HR\_HIRING\_DETAILS\_TRANSACTION H JOIN JOINING\_STATUS J ON H.CANDIDATE\_REF=J.CANDIDATE\_REF

WHERE NOTICE\_PERIOD<30 AND STATUS='Joined' AND DOJ\_EXTENDED='Yes'

AND CANDIDATE\_RELOCATE\_ACTUAL='Yes' AND JOINING\_BONUS='Yes' AND PERCENT\_HIKE\_EXPECTED\_IN\_CTC<25;

**OUTPUT:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CANDIDATE\_REF** | **JOINING\_BONUS** | **CANDIDATE\_RELOCATE\_ACTUAL** | **STATUS** | **NOTICE\_PERIOD** | **DOJ\_EXTENDED** |
| 2287184 | Yes | Yes | Joined | 0 | Yes |
| 3537842 | Yes | Yes | Joined | 0 | Yes |
| 3638372 | Yes | Yes | Joined | 0 | Yes |

1. **Generate the count of the candidates who are hired through what source and also who have joined and declined the offer.**

**Query:**

SELECT COUNT(H.CANDIDATE\_REF),H.CANDIDATE\_SOURCE

FROM HR\_HIRING\_DETAILS\_TRANSACTION H JOIN JOINING\_STATUS J

ON H.CANDIDATE\_REF=J.CANDIDATE\_REF WHERE J.STATUS='Joined'

GROUP BY H.CANDIDATE\_SOURCE;

**OUTPUT:**

|  |  |
| --- | --- |
| **COUNT(H.CANDIDATE\_REF)** | **CANDIDATE\_SOURCE** |
| 1960 | Agency |
| 1416 | Employee Referral |
| 3937 | Direct |