Name-Shubhankar Joshi

Roll no - 18
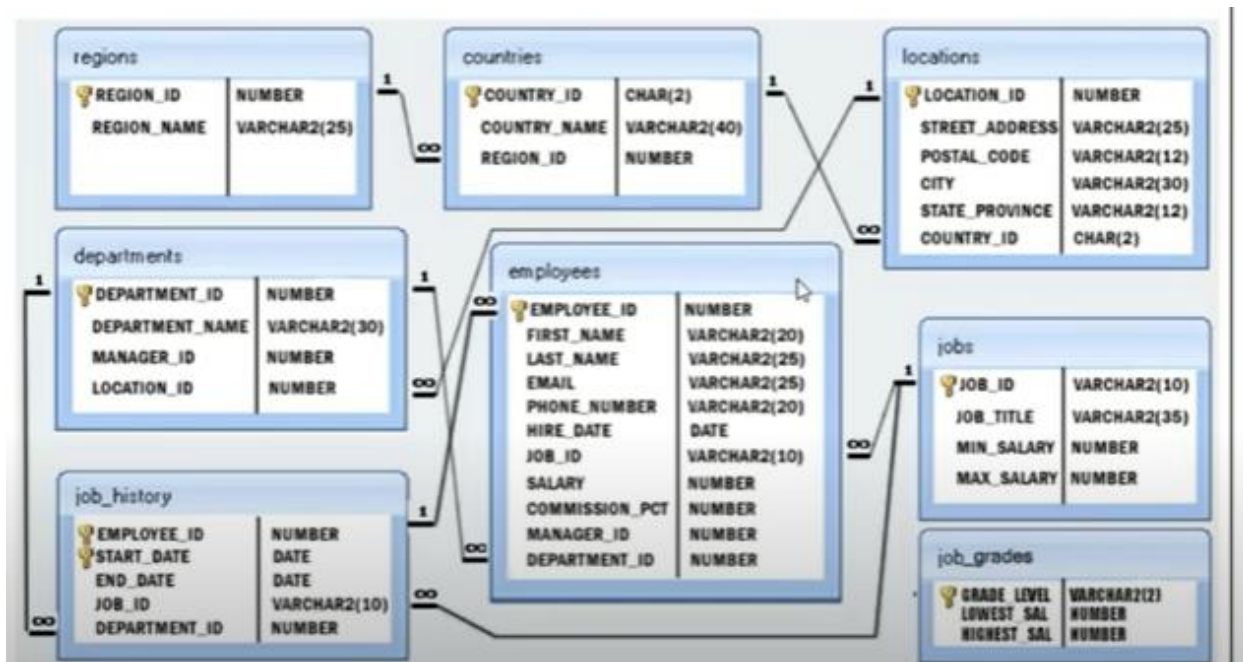
Div- ICB
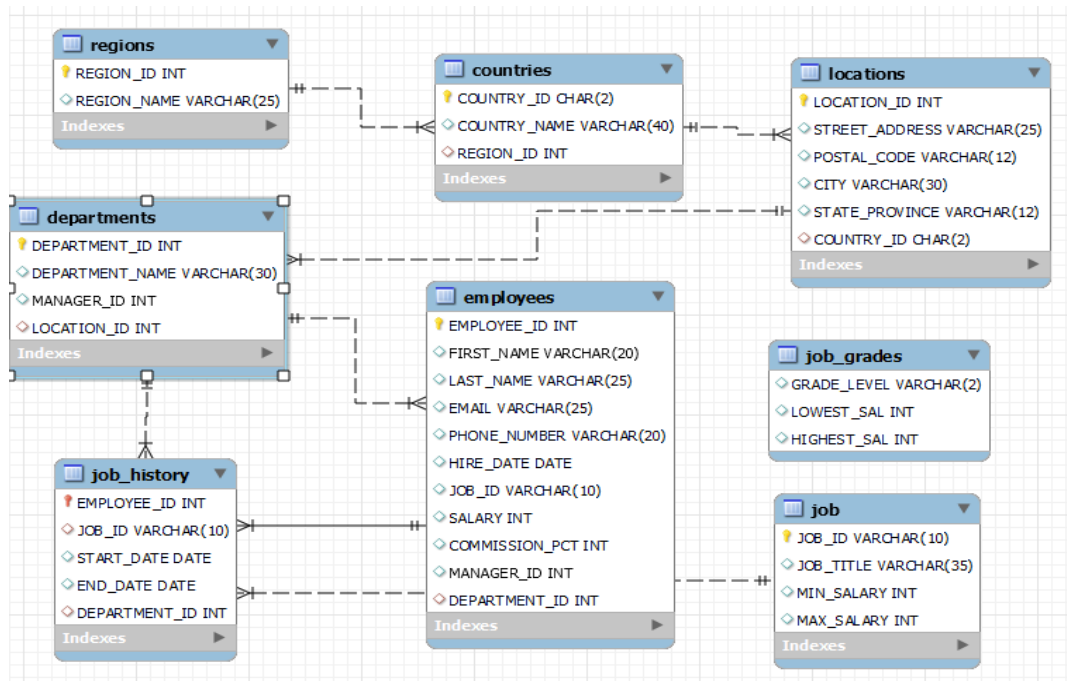
Batch – B1

Design of database using E-R diagram

In this design a database is designed by referring E – R diagram. Following figure is referred for to create the SQL program. The program was written and out put was obtained.

This is a employee database with 8 tables and respective foreign keys are assigned in the code.

regions
REGION_ID INT
REGION_NAME VARCHAR(25)
Indexes

countries
COUNTRY_ID CHAR(2)
COUNTRY_NAME VARCHAR(40)
REGION_ID INT
Indexes

locations
LOCATION_ID INT
STREET_ADDRESS VARCHAR(25)
POSTAL_CODE VARCHAR(12)
CITY VARCHAR(30)
STATE_PROVINCE VARCHAR(12)
COUNTRY_ID CHAR(2)
Indexes

departments
DEPARTMENT_ID INT
DEPARTMENT_NAME VARCHAR(30)
MANAGER_ID INT
LOCATION_ID INT
Indexes

employees
EMPLOYEE_ID INT
FIRST_NAME VARCHAR(20)
LAST_NAME VARCHAR(25)
EMAIL VARCHAR(25)
PHONE_NUMBER VARCHAR(20)
HIRE_DATE DATE
JOB_ID VARCHAR(10)
SALARY INT
COMMISSION_PCT INT
MANAGER_ID INT
DEPARTMENT_ID INT
Indexes

job_grades
GRADE_LEVEL VARCHAR(2)
LOWEST_SAL INT
HIGHEST_SAL INT

job_history
EMPLOYEE_ID INT
JOB_ID VARCHAR(10)
START_DATE DATE
END_DATE DATE
DEPARTMENT_ID INT
Indexes

job
JOB_ID VARCHAR(10)
JOB_TITLE VARCHAR(35)
MIN_SALARY INT
MAX_SALARY INT
Indexes

This is the exported E R Diagram from MySQL Shell.

Table	Action						Rows	Type	Collation	Size	Overhead
countries	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
departments	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
employees	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
job	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
job_grades	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
job_history	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	48.0 KiB	-
locations	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
regions	Browse	Structure	Search	Insert	Empty	Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
8 tables	Sum						0	InnoDB	utf8mb4_0900_ai_ci	224.0 KiB	0 B

New
information_schema
jobs
New
countries
departments
employees
job
job_grades
job_history
locations
regions
mysql
performance_schema
sys

Filters
Containing the word:

Check all   With selected:

Print   Data dictionary