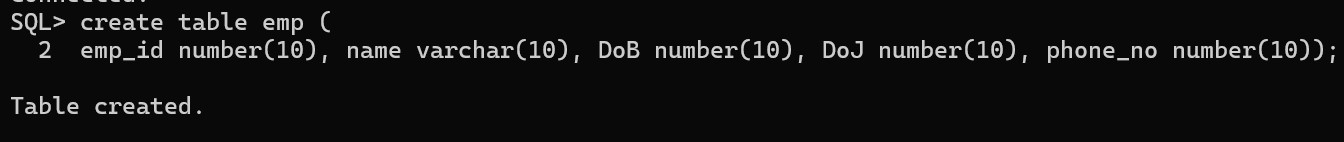
**DBMS LAB Test-2 (20-03-2025)**

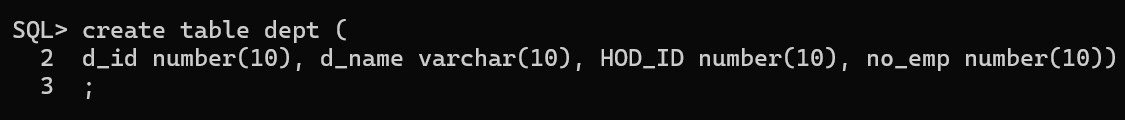
**Name-** Bhavya Shrivastava **Roll No-** 23052071 **Section-** CSE-15

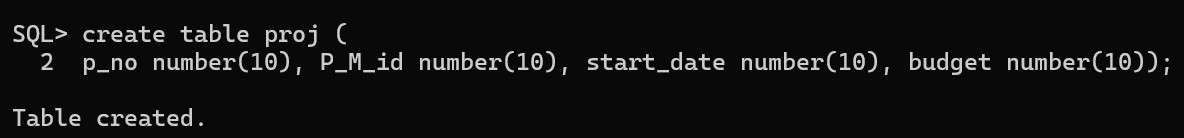
1. **Draw an ERD & SD of IBM DATABASE from the following description:**

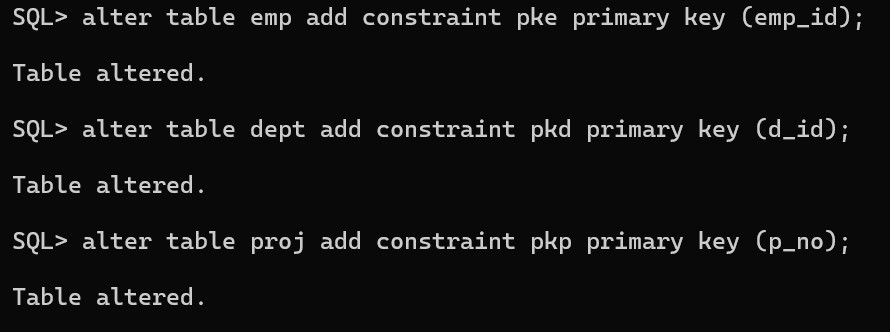
**IBM has multiple departments like, coding, R&D, testing, marketing etc. Each department recruits employees. There are multiple projects handled by IBM. One project is managed by multiple departments and one department at the same time is associated with multiple projects. An employee can work on multiple projects. Each project has multiple employees and one project manager. IBM database should assign an unique department\_id to every department and store information regarding department like, department name, HOD\_ID, No\_of\_employees etc. The database should assign an unique project\_no to every project and store information regarding projects like, project\_manager’s\_id, start\_date, assigned\_budget etc. IBM database should assign an unique employee\_id to every employee and store information regarding employees like, name, DoB, DoJ, Phone\_no etc.**

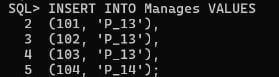
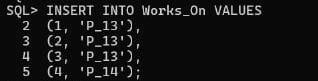
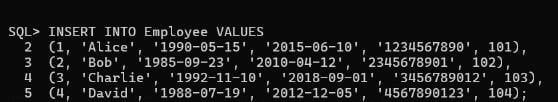
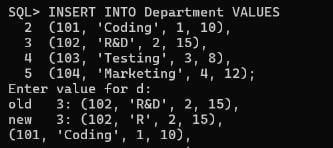
1. **Make a relational database from the above description. Create all necessary relational tables, add primary keys and foreign keys. All constraints should have appropriate names.**

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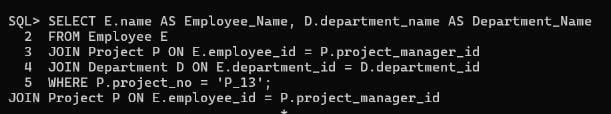
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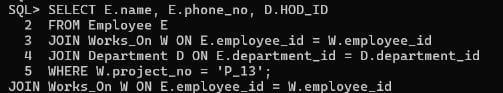
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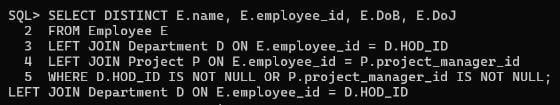
1. **Write SQL Statement for the following queries.**
2. **Find the employee’s name and his department’s name, who is the project manager of project\_no = P\_13.**

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1. **Find all the employees (names, phone\_no, HoD\_id), who work in P\_13.**

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1. **Find all the employees(Names, id, DoB, DoJ), who works as either HoD of a department or manager of a project or both.**

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