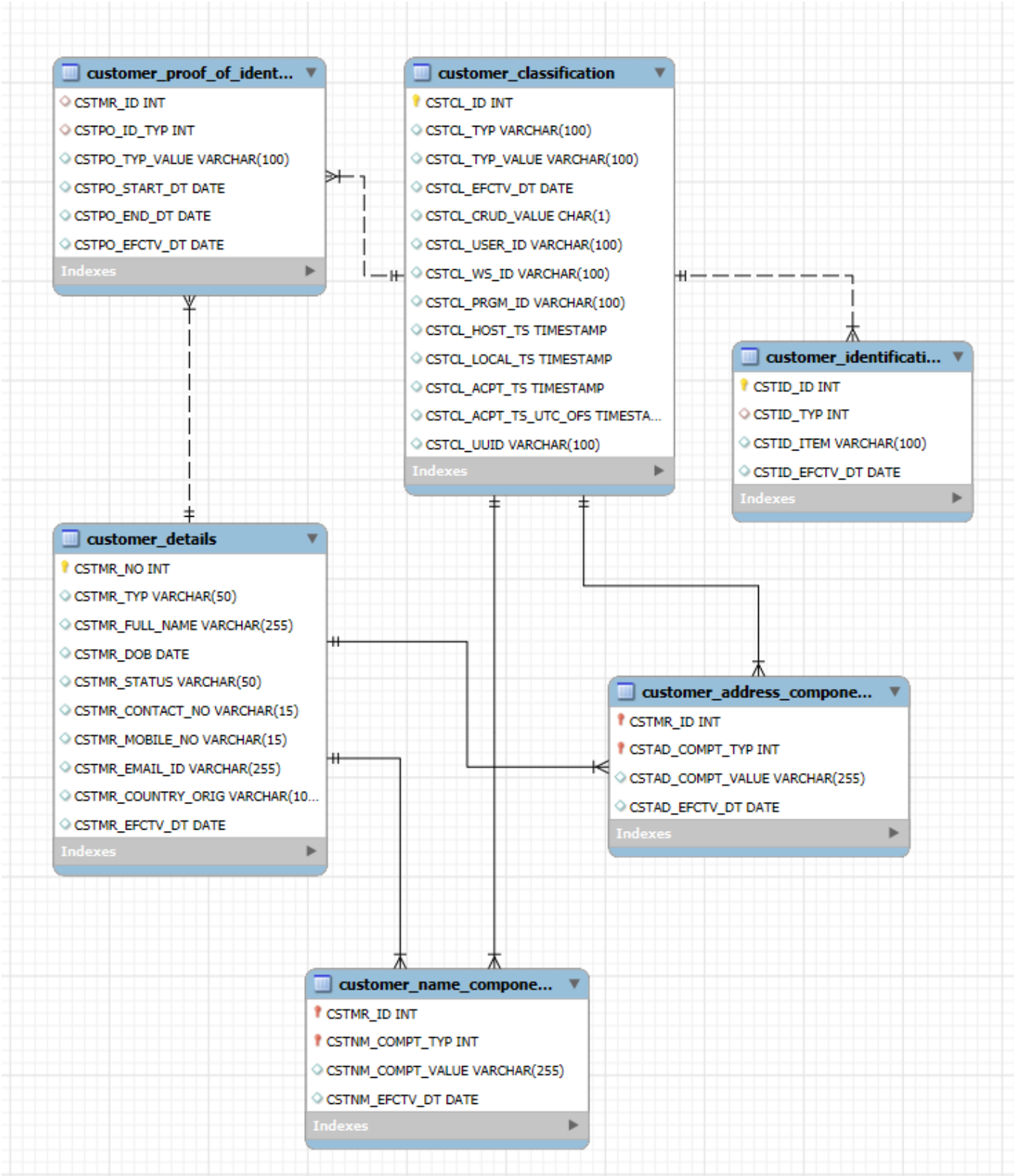
LAB 2

1. **Design an ERD/LDM for the above entities.**



2. **Define the physical tables in the table format given as sample for Customer Classification with the data type, size and explanation of each field.**

i. Customer Classification Table

Column	Datatype	Explanation
CSTCL_ID	int PK	Used as an identification for reference
CSTCL_TYP	varchar(100)	Classification type
CSTCL_TYP_VALUE	varchar(100)	Classification value
CSTCL_EFCTV_DT	date	Effective date of the identity
CSTCL_CRUD_VALUE	char(1)	Stores logical status of the data
CSTCL_USER_ID	varchar(100)	User who created the data
CSTCL_WS_ID	varchar(100)	Workstation from where the data is created
CSTCL_PRGM_ID	varchar(100)	Program that inserted the data
CSTCL_HOST_TS	timestamp	Host timestamp at record insertion
CSTCL_LOCAL_TS	timestamp	Local timestamp at record insertion
CSTCL_ACPT_TS	timestamp	Timestamp when the record is accepted
CSTCL_ACPT_TS_UTC_OFS	timestamp	Timestamp when the record is inserted
CSTCL_UUID	varchar(100)	Unique identifier to identify the process

ii. Customer Identification Table

Column	Datatype	Explanation
CSTID_ID	int PK	Unique identifier for the customer
CSTID_TYP	int	Type of customer identification
CSTID_ITEM	varchar(100)	Value of item identification
CSTID_EFCTV_DT	date	Effective date of customer record

iii. Customer Details Table

Column	Datatype	Explanation
CSTMR_NO	int PK	Unique identifier for the customer
CSTMR_TYP	varchar(50)	Type of customer
CSTMR_FULL_NAME	varchar(255)	Full name of customer
CSTMR_DOB	date	Date of birth of customer
CSTMR_STATUS	varchar(50)	Current status of customer
CSTMR_CONTACT_NO	varchar(15)	Contact number of customer
CSTMR_MOBILE_NO	varchar(15)	Mobile number of customer
CSTMR_EMAIL_ID	varchar(255)	Email number of customer
CSTMR_COUNTRY_ORIG	varchar(100)	Country number of customer
CSTMR_EFCTV_DT	date	Effective date of record

iv. Customer Name Components Table

Column	Datatype	Explanation
CSTMR_ID	int PK	Unique identifier for the customer
CSTNM_COMPT_TYP	int PK	Type of customer component
CSTNM_COMPT_VALUE	varchar(255)	Value assosicated with the component
CSTNM_EFCTV_DT	date	Effective date of record

v. Customer Proof of Identity Table

Column	Datatype	Explanation
CSTMR_ID	int	Unique identifier for the customer
CSTPO_ID_TYP	int	Type of customer proof of identity
CSTPO_TYP_VALUE	varchar(100)	Value of proof of identity
CSTPO_START_DT	date	Start date of identity proof
CSTPO_END_DT	date	Expiry date of identity proof
CSTPO_EFCTV_DT	date	Effective date of record

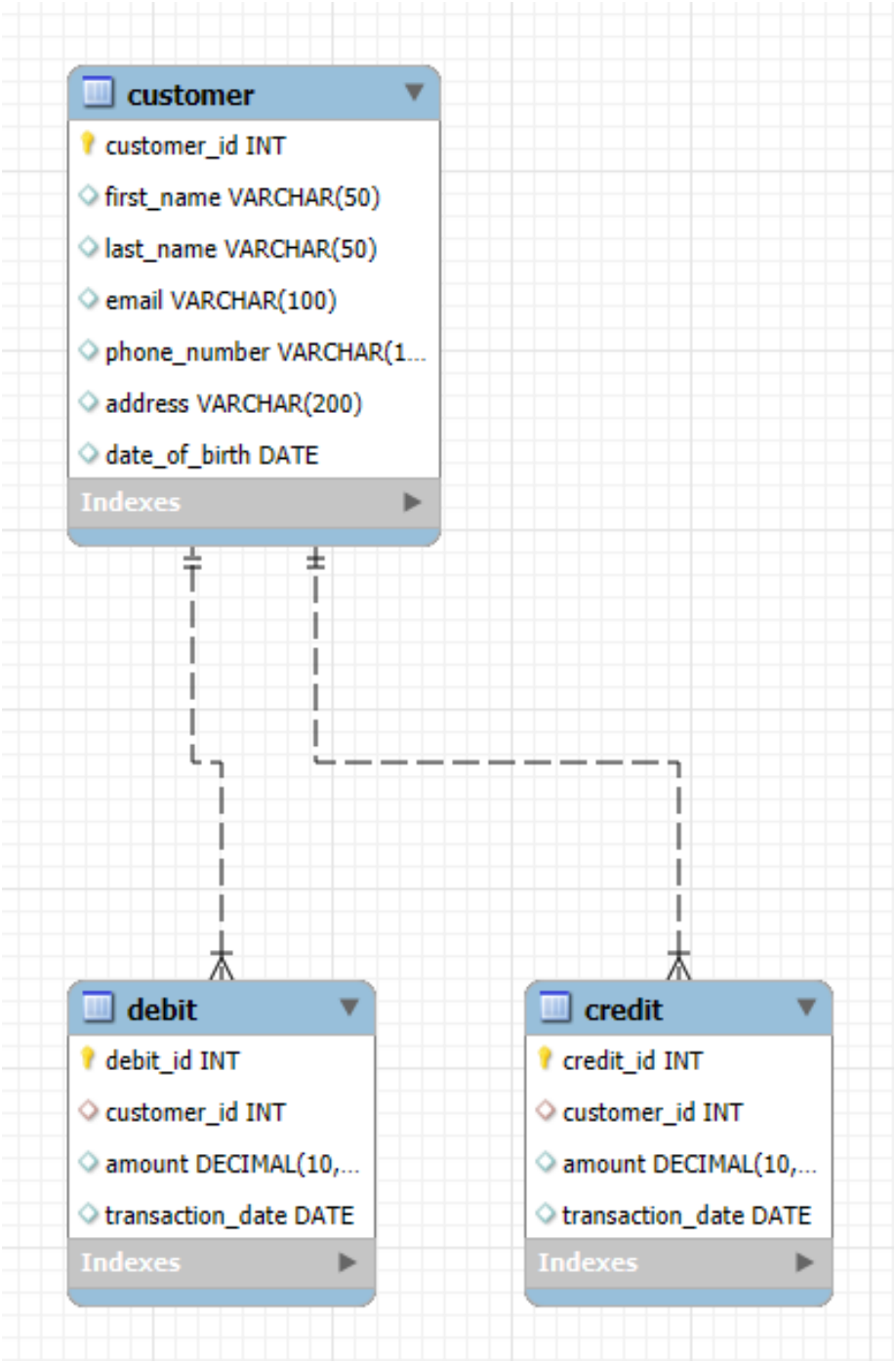
vi. Customer Address Components Table

Column	Datatype	Explanation
CSTMR_ID	int PK	Unique identifier for the customer
CSTAD_COMPT_TYP	int PK	Type of customer address component
CSTAD_COMPT_VALUE	varchar(255)	Value of address component
CSTAD_EFCTV_DT	date	Effective date of record

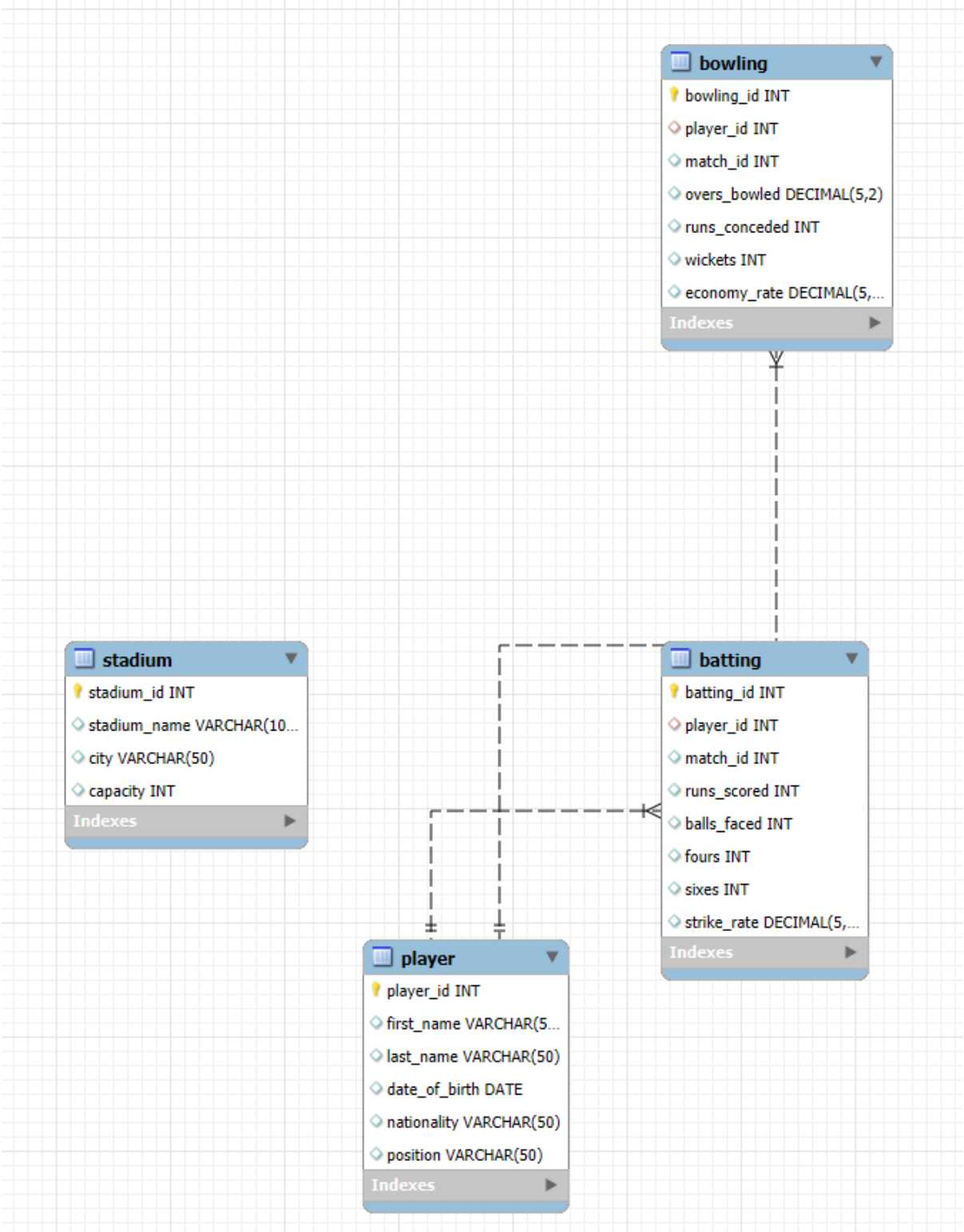
ADDITIONAL QUESTIONS

Part 1: SQL Table creation queries and the ER Diagrams

1. **Bank Database**
   https://livesql.oracle.com/ords/livesql/s/cxgrzosm6g8ftjnallhbfgx6k



2. **Cricket Database**
   https://livesql.oracle.com/ords/livesql/s/cxgtokhhrqjdqw453khjdd3aa



3. **Supermarket Database**
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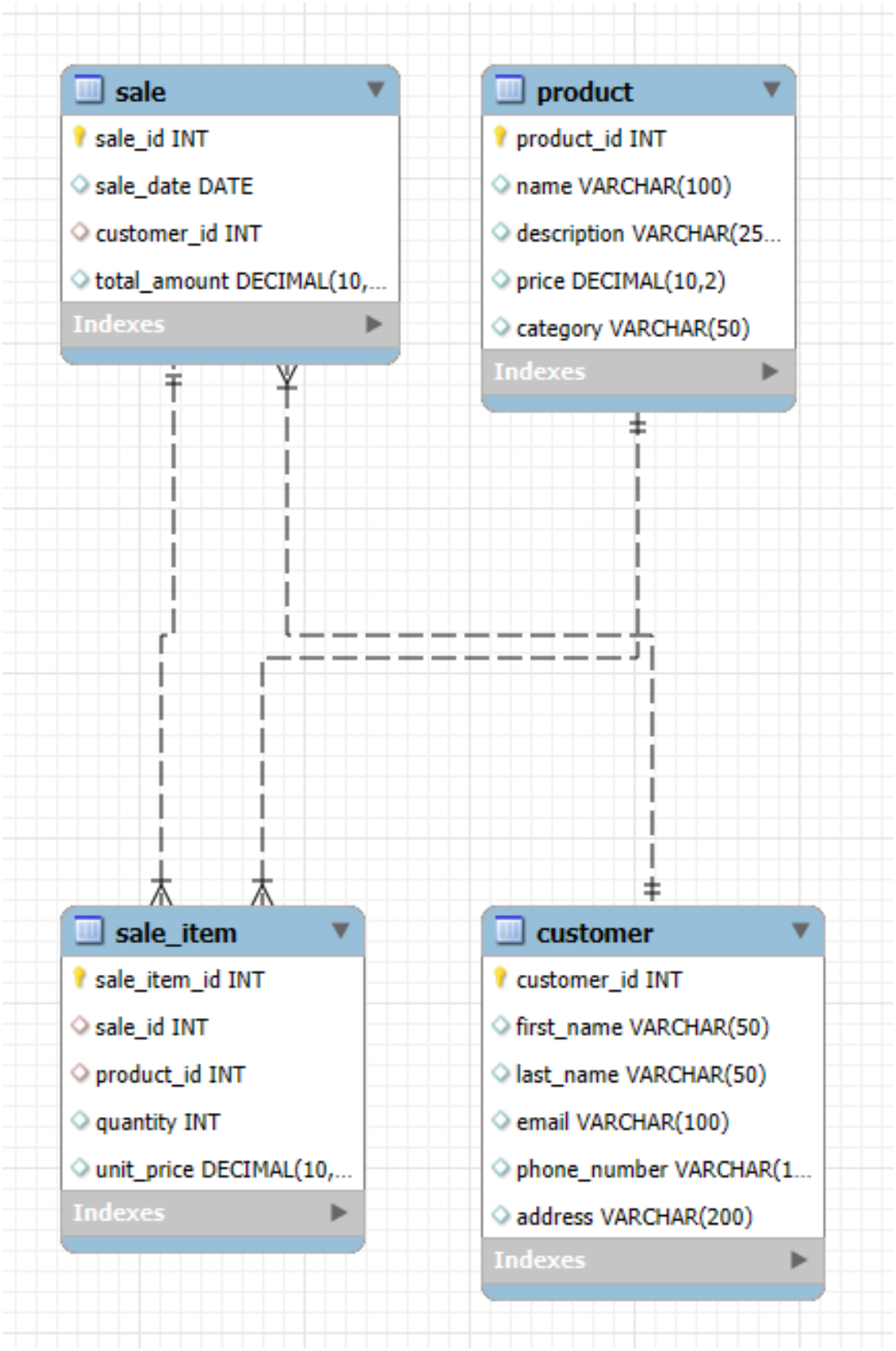

4. **Railway Reservation System**
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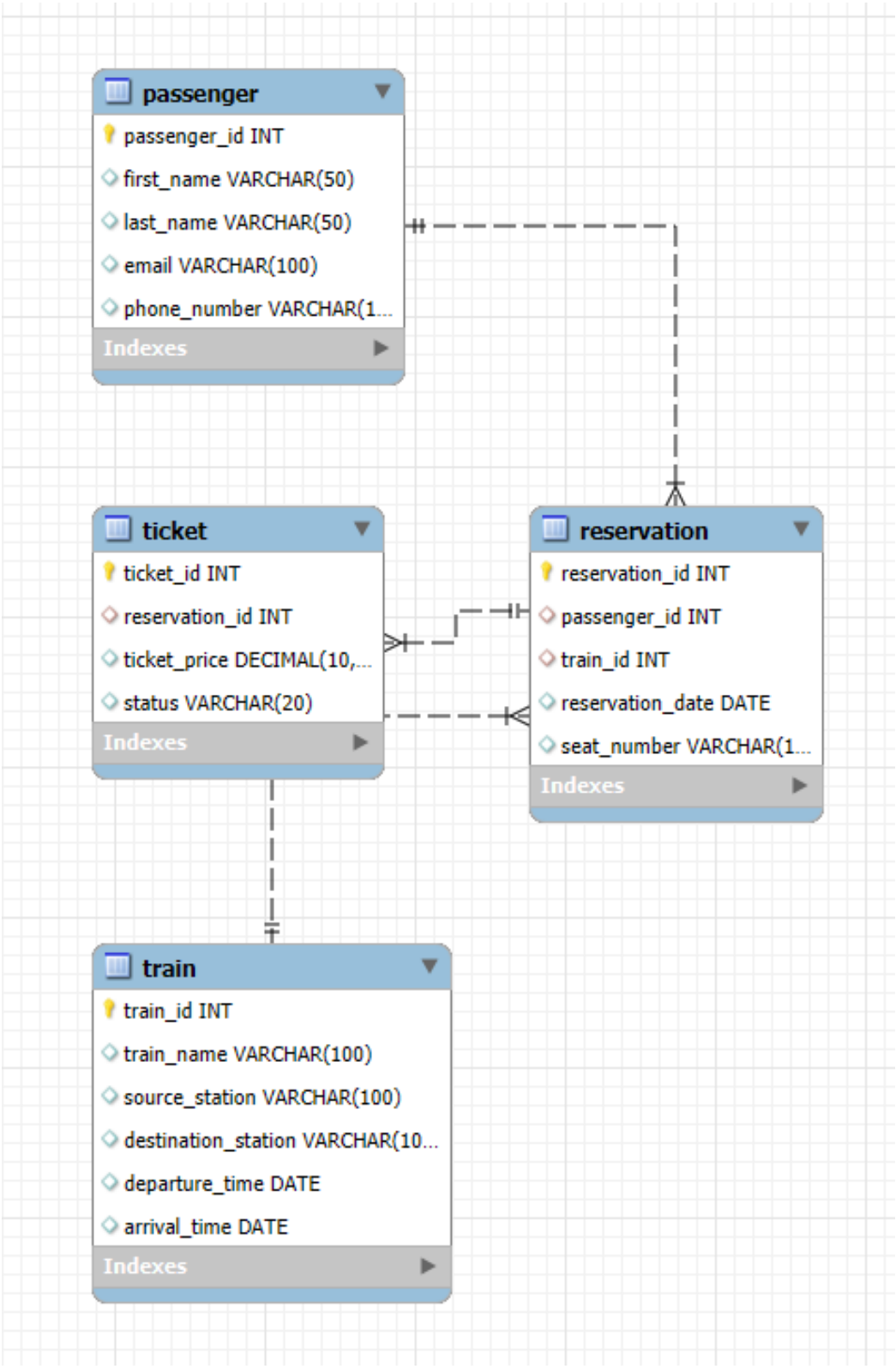
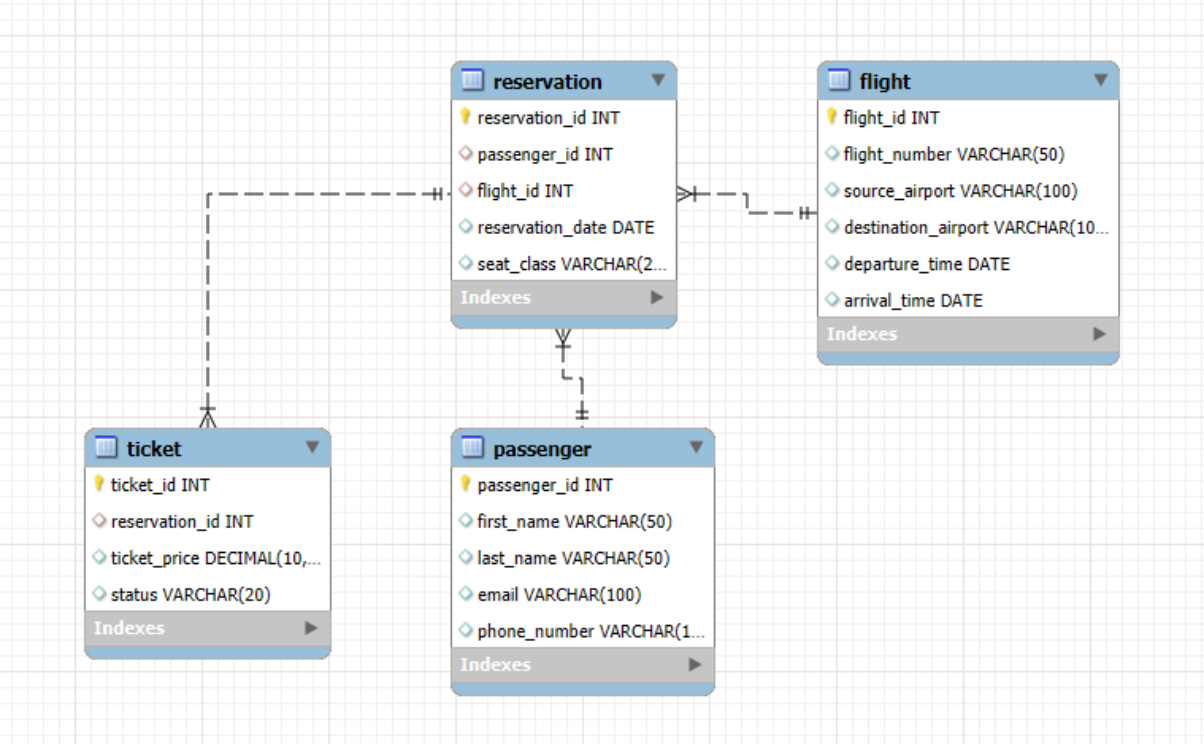
5. **Airline Reservation System**
   https://livesql.oracle.com/ords/livesql/s/cxgr0tiaa7hmftvo505vot17g