TASK 1: Relational Database Queries - Relational Algebra

(a) List the id and description of all items which have never been used in any appointment service.

```
R = πitem_id, item_desc (σ ITEM.item_id != APPTSERVICE_ITEM.item_id(ITEM ⋈ APPTSERVICE_ITEM))
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(b) List the patient number, patient first name, patient last name, emergency contact first name, emergency contact last name and emergency contact phone number of all patients who live in a city named Mooroolbark and had appointment/s on 08 September 2023.

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MOOROOLBARK_PATIENTS = \pi_{patient\_no, patient\_fname, patient\_lname, ec\_fname, ec\_fname, ec\_phone} (\sigma_{patient\_city} = \text{``Mooroolbark''} (\sigma_{patient\_no} (\sigma_{pa
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(c) List the number, first name, last name and email address of all patients who have been attended by endodontists (i.e providers who specialise in ENDODONTICS).

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R1 = \pi_{patient\_no}(\sigma_{patient\_no}(\sigma_{patient\_no}(\sigma_{patient\_no}(\sigma_{patient\_no}(\sigma_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}(\rho_{patient\_no}
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